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. For further information, see USF Policy #10-059.

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.
Prospective freshmen and other interested persons are invited to visit the University of South Florida’s campus in Tampa. Most University offices receive visitors from 9:00 a.m. to 5:00 p.m., Monday through Friday. Prospective undergraduate students, Freshman and Transfer students, are encouraged to attend the USF Campus Visit Experience. This program, offered through the Office of Undergraduate Admissions, is designed to acquaint participants with USF admission, financial aid and scholarships, housing, the cost of attendance, academics and student life. The Campus Visit Experience is offered Monday through Friday at 10:00 a.m. and 2:00 p.m. and on select Saturdays during fall and spring semesters at 10:00 a.m. Additional information for the Campus Visit Experience can be found online at: usfweb2.usf.edu/admissions.

Academic Advising (for Undeclared and Undecided Students)
TRansitional Advising Center (TRAC), SVC 2043
813-974-2645
http://www.ugs.usf.edu/trac/trac.htm

Academic Advising (for undergraduate students)

Arts & Sciences, BEH 201
813-974-6957
http://www.cas.usf.edu

Athletics

Behavioral and Community Sciences, MCH 1110
813-974-2365
http://www.cbcs.usf.edu/CurrentStudents/ContactAdvising.cfm

Business, BSN 2102
813-974-4290
http://business.usf.edu/programs/undergraduate/index.html

Education, EDU 106
813-974-2979
http://www.coedu.usf.edu/main/sas/sas.html

Engineering, ENC 1302
813-974-2684
http://www2.eng.usf.edu/studentServices/undergradAdvising.htm

Freshman Summer Institute (FSI), SVC 2011
813-974-4227
http://www.ugs.usf.edu/fsi/fsi.htm#advp

Honors, ALN 241
813-974-3087
http://honors.usf.edu/advising.asp

Medicine – Athletic Training, MDC 106
813-974-2833
http://www.health.usf.edu/medicine/orthopaedic/athletictraining/undergrad/advising.htm

Nursing, MDC 22
813-974-2191
http://health.usf.edu/nocms/nursing/admissions&programs.html

Public Health, CPH 1133
813-974-6505
http://health.usf.edu/publichealth/undergrad/advising.htm

Student Support Services (SSS), SVC 2011
813-974-4301
http://www.ugs.usf.edu/sss/sss.htm

The Arts, FAH 120
813-974-3660
http://advising.arts.usf.edu/

University College, SVC 1072
813-974-4326
http://uc.usf.edu/bgs/

Academic Support and Accommodations for Students with Disabilities

Students with Disabilities Services, SVC 1133
813-974-4309 (voice)
http://www.sds.usf.edu/
Applications and Admissions
Office of Admissions, SVC 1036
813-974-3350
http://usfweb2.usf.edu/admissions/

Athletics (Intercollegiate)
Director of Athletics, ATH 100
813-974-2125
http://www.gousfbulls.com/

Career Center
Cooperative Education Program, SVC 2088
Career/Job Search Assistance, SVC 2088
813-974-2171
http://www.career.usf.edu/

College Level Examination Program (CLEP tests)
USF Testing Services, SVC 2060
813-974-2741
http://www.conted.usf.edu/testing/

Continuing Education
Continuing Education, NEC 116
813-974-2403
http://www.conted.usf.edu

Counseling (Student)
Counseling Center, SVC 2124
813-974-2831
http://www.usf.edu/counsel/

Financial Assistance (scholarships, loans, employment)
Office of Financial Aid, SVC 1102
813-974-4700
http://usfweb2.usf.edu/finaid/

Graduate School
Office of the Dean, ALN 226
813-974-2846
http://www.grad.usf.edu/

Health Services (Student)
Student Health Services, SHS 100
813-974-2331
http://www.shs.usf.edu/

Honors College
Office of the Dean, ALN 241
813-974-3087
http://honors.usf.edu/

Housing: Campus Residence Halls
Housing and Residential Education RAR 229
813-974-0001
http://www.housing.usf.edu/

Housing: Off-Campus
Student Resource Agency Student Government
MSC 1503
813-974-7613

International Student and Scholar Services
Office of the Advisor, CGS 101
813-974-5102
http://global.usf.edu/isss
COMMUNICATING WITH USF

UNIVERSITY OF SOUTH FLORIDA 2012-2013 UNDERGRADUATE CATALOG

Library Resources
Tampa Campus: LIB 122
  Circulation 813-974-1611
  Reference 813-974-272
  http://www.lib.usf.edu/

Orientation
  Office of the Director, SVC 2049
  813-974-3060
  http://usfweb2.usf.edu/orientation/

Parking and Transportation Services
  Parking Services, PSB 101
  813-974-3990
  http://usfweb2.usf.edu/parking_services/default.asp

Pre-Admission Advising for Prospective Freshman, International, Mature, Minority, and Transfer Students
  Office of Admissions, SVC 1036
  813-974-3350
  http://usfweb2.usf.edu/admissions/

Reading Study Skills
  Student Learning Commons, LIB 206
  813-974-2713
  http://guides.lib.usf.edu/tutoring

Records, Registration
  Office of the Registrar, SVC 1034
  813-974-2000
  http://www.registrar.usf.edu/

Student Affairs
  Office of the Vice President, ALN 151
  813-974-5533
  http://www.sa.usf.edu/

Student Learning Commons (Tutoring and Learning Services)
  Office of the Director, LIB 206
  813-974-9281
  http://guides.lib.usf.edu/tutoring

Transcripts USF
  Office of the Registrar, SVC 1034
  813-974-2000
  http://www.registrar.usf.edu/regurl/os/transcripts

Tuition Waiver for Senior Citizens
  Registrar's Office, SVC 1034
  813-974-2000
  http://www.registrar.usf.edu/regurl/os/senior

University College
  Administration, SVC 1072
  813-974-4926
  http://ecampus.usf.edu/default.asp

Undergraduate Studies
  Office of the Dean, SVC 2002
  813-974-4051
  http://www.ugs.usf.edu/

University Experience Program
  Office of the Coordinator, SVC 2043
  813-974-2645
  http://www.ugs.usf.edu/ue/ue.htm
University Police
  Emergencies 911
  UPB 002 813-974-2628
  http://upolice.up.usf.edu/

Veterans Services
  Office of Veterans Services, SVC 2127
  http://www.veterans.usf.edu
  813-974-2291

Victim Advocacy
  Center for Victim Advocacy & Violence Prevention SVC 0067
  813-974-5757
  http://www.sa.usf.edu/advocacy
<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Communicating with USF</td>
<td>i</td>
</tr>
<tr>
<td>Academic Calendar</td>
<td>vi</td>
</tr>
<tr>
<td>Accreditation and Degrees Offered</td>
<td>ix</td>
</tr>
<tr>
<td>General Information</td>
<td>1</td>
</tr>
<tr>
<td>Admissions and Related Matters</td>
<td>5</td>
</tr>
<tr>
<td>Student Affairs and Student Services</td>
<td>18</td>
</tr>
<tr>
<td>USF World</td>
<td>24</td>
</tr>
<tr>
<td>Financial Information</td>
<td>25</td>
</tr>
<tr>
<td>Registration</td>
<td>31</td>
</tr>
<tr>
<td>Academic Policies and Procedures</td>
<td>38</td>
</tr>
<tr>
<td>Academic Programs and Services</td>
<td>76</td>
</tr>
<tr>
<td>Honors College</td>
<td>84</td>
</tr>
<tr>
<td>College of Arts and Sciences</td>
<td>86</td>
</tr>
<tr>
<td>College of Behavioral and Community Sciences</td>
<td>183</td>
</tr>
<tr>
<td>College of Business</td>
<td>197</td>
</tr>
<tr>
<td>College of Education</td>
<td>214</td>
</tr>
<tr>
<td>College of Engineering</td>
<td>244</td>
</tr>
<tr>
<td>College of Medicine</td>
<td>275</td>
</tr>
<tr>
<td>College of Nursing</td>
<td>278</td>
</tr>
<tr>
<td>College of Public Health</td>
<td>283</td>
</tr>
<tr>
<td>College of The Arts</td>
<td>289</td>
</tr>
<tr>
<td>Undergraduate Studies</td>
<td>321</td>
</tr>
<tr>
<td>General Course Information</td>
<td>337</td>
</tr>
<tr>
<td>Undergraduate Course Descriptions</td>
<td>348</td>
</tr>
<tr>
<td>Index</td>
<td>489</td>
</tr>
</tbody>
</table>
ACADEMIC CALENDAR FOR UNDERGRADUATE STUDENTS

UNIVERSITY OF SOUTH FLORIDA 2012-2013 UNDERGRADUATE CATALOG

FALL SEMESTER, 2012

January 2  Monday  Priority scholarship application deadline for First Time in College Students for Fall semester (new freshmen) and international applicants
March 1  Thursday  Application deadline date for international applicants to apply for admission and submit all required credentials and supporting documents
March 1  Thursday  Application deadline for First Time in College Students for Fall semester (new freshmen)
June 1  Friday  Application deadline date for undergraduate transfers to apply for admission (except international applicants)
July 15  Monday  Deadline for undergraduate transfers to submit all documentation to complete applicant file
August 27  Monday  Classes begin
August 1  Wednesday  Deadline for Former Degree Seeking Students to reapply for Fall semester (20 business days before classes begin)
August 31  Friday  Last day to withdraw/drop and receive full refund of registration fees - Deadline: 5:00 p.m.
August 31  Friday  Last day to add courses - Deadline: 5:00 p.m.
August 31  Friday  Last day for late registration - Deadline: 5:00 p.m.
August 31  Friday  Last day to pay fees
September 3  Monday  Labor Day holiday
September 21  Friday  Graduation Application deadline
September 28  Wednesday  Rosh Hashanah begins
November 3  Saturday  Last day to drop or withdraw from courses without academic penalty - Deadline: 5:00 p.m.
November 12  Friday  Veteran’s Day holiday celebrated
November 22-23  Thursday-Friday  Thanksgiving holidays
December 7  Friday  Fall Classes end
December 14  Saturday-Friday  Final examinations
December 9  Friday  Commencement (Tampa)

SPRING SEMESTER, 2013

October 1  Monday  Application deadline date for international transfer applicants to apply for admission and submit all required credentials and supporting documents.
October 1  Monday  Application deadline date for undergraduate transfers to apply for admission
November 15  Thursday  Deadline for undergraduate transfers to submit all documentation to complete applicant file
December 10  Monday  Application deadline for Former Degree Seeking Students to reapply for Spring semester (20 business days before classes begin)
January 7  Monday  Classes begin
January 11  Friday  Last day to withdraw/drop and receive full refund of registration fees - Deadline: 5:00 p.m.
January 11  Friday  Last day to add courses - Deadline: 5:00 p.m.
January 11  Friday  Last day for late registration - Deadline: 5:00 p.m.
January 11  Friday  Last day to pay fees
January 21  Monday  Martin Luther King holiday
February 1  Friday  Graduation application deadline
March 1  Thursday  Application deadline for First Time in College Students for Fall semester 2012 (New Freshmen)
March 11-16  Monday-Saturday  Spring Semester Break
March 23  Saturday  Last day to drop or withdraw from courses without academic penalty - Deadline: 5:00 p.m.
April 26  Friday  Classes end
April 27-May 3  Saturday - Friday  Final examinations
May 3-4  Friday & Saturday  Commencement (Tampa)
SUMMER TERM, 2013
SESSION A
(First Six-week Session)

January 2  Wednesday
Priority scholarship application deadline for First Time in College (new freshmen) and international students

March 1  Friday
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

March 1  Friday
Application deadline for First Time in College Students for Summer semester (new freshmen)

March 1  Friday
Application deadline date for undergraduate transfers to apply for admission

April 15  Monday
Deadline for undergraduate transfers to submit all documentation to complete applicant file

April 15  Monday
Application deadline for Former Degree Seeking Students applying for the summer term (20 business days prior to the first day of classes)

May 13  Monday
Classes begin

May 17  Friday
Last day to withdraw/drop and receive full refund of registration fees - Deadline: 5:00 p.m.

May 17  Friday
Last day to add courses

May 17  Friday
Last day for late registration

May 17  Friday
Last day to pay fees

May 27  Monday
Memorial Day holiday

June 7  Friday
Graduation application deadline

June 8  Saturday
Last day to drop or withdraw from courses without academic penalty - Deadline: 5:00 p.m.

June 21  Friday
Last day of classes

August 3  Saturday
Summer Commencement (Tampa) - Tentative Date

SESSION B
(Second Six-week Session)

March 1  Friday
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

March 1  Friday
Application deadline for First Time in College Students for Summer semester (new freshmen)

March 1  Friday
Application deadline date for undergraduate transfers to apply for admission

April 1  Monday
Application deadline date for international transfer applicants currently in the United States to apply for admission and submit all required credentials and supporting documents

April 15  Monday
Deadline for undergraduate transfers to submit all documentation to complete applicant file

April 15  Monday
Application deadline for Former Degree Seeking Students applying for the summer term (20 business days prior to the first day of classes)

June 7  Friday
Graduation application deadline

July 1  Monday
Classes begin

July 8  Monday
Last day to withdraw/drop and receive full refund of registration fees - Deadline: 5:00 p.m.

July 8  Monday
Last day to add courses

July 8  Monday
Last day for late registration

July 8  Monday
Last day to pay fees

July 4  Thursday
Independence Day holiday

July 20  Saturday
Last day to drop or withdraw from courses without academic penalty - Deadline: 5:00 p.m.

August 2  Friday
Last day of classes

August 3  Saturday
Summer Commencement (Tampa) - Tentative Date
# ACADEMIC CALENDAR FOR UNDERGRADUATE STUDENTS

**SESSION C**
(Ten-week Session)

<table>
<thead>
<tr>
<th>Date</th>
<th>Day</th>
<th>Event and Details</th>
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<tbody>
<tr>
<td>March 1</td>
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<td>Friday</td>
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</tr>
<tr>
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<td>Monday</td>
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</tr>
<tr>
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</tr>
<tr>
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<td>Friday</td>
<td>Last day for late registration</td>
</tr>
<tr>
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<td>Friday</td>
<td>Last day to pay fees</td>
</tr>
<tr>
<td>May 27</td>
<td>Monday</td>
<td>Memorial Day holiday</td>
</tr>
<tr>
<td>June 7</td>
<td>Friday</td>
<td>Graduation application deadline</td>
</tr>
<tr>
<td>June 29</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>July 4</td>
<td>Thursday</td>
<td>Independence Day holiday</td>
</tr>
<tr>
<td>July 19</td>
<td>Friday</td>
<td>Last day of classes</td>
</tr>
<tr>
<td>August 3</td>
<td>Saturday</td>
<td>Summer Commencement (Tampa) - Tentative Date</td>
</tr>
</tbody>
</table>
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. 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
- Bachelor of Fine Arts
- Bachelor of Music
- Bachelor of Science
- Bachelor of Science in Applied Science
- Bachelor of Science in Athletic Training
- Bachelor of Science in Chemical Engineering
- Bachelor of Science in Civil Engineering
- Bachelor of Science in Computer Engineering
- Bachelor of Science in Computer Science
- Bachelor of Science in Electrical Engineering
- Bachelor of Science in Industrial Engineering
- Bachelor of Science in Information Technology
- Bachelor of Science in Mechanical Engineering
- Bachelor of Social Work

**Graduate Degrees**
- Master of Accountancy
- Master of Architecture
- Master of Arts
- Master of Arts in Bioethics and Medical Humanities
- Master of Arts in Teaching
- Master of Business Administration
- Master of Chemical Engineering
- Master of Civil Engineering
- Master of Education
- Master of Environmental Engineering
- Master of Fine Arts
- Master of Health Administration
- Master of Industrial Engineering
- Master of Liberal Arts
- Master of Mechanical Engineering
- Master of Music
- Master of Public Administration
- Master of Public Health
- Master of Science
- Master of Science in Bioinformatics and Computational Biology
- Master of Science in Biomedical Engineering
- Master of Science in Biotechnology
- Master of Science in Chemical Engineering
- Master of Science in Civil Engineering
- Master of Science in Computer Engineering
- Master of Science in Computer Science
- Master of Science in Electrical Engineering
- Master of Science in Engineering
- Master of Science in Engineering Management
- Master of Science in Engineering Science
- Master of Science in Environmental Engineering
- Master of Science in Industrial Engineering
- Master of Science in Marketing
- Master of Science in Mechanical Engineering
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 envisions itself as a premier research university with state, national and global impact, and positioned for membership in the Association of American Universities (AAU).

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

• Student access and success in an engaged, and interdisciplinary, learner-centered environment,
• Research and scientific discovery, including the generation, dissemination, and translation of new knowledge across disciplines; to strengthen the economy; to promote civic culture and the arts; and to design and build sustainable, healthy communities, and
• Embracing innovation, and supporting scholarly and artistic engagement to build a community of learners together with significant and sustainable university-community partnerships and collaborations.

Goals
The University of South Florida will pursue its rising stature as a pre-eminent research university with a state, national and global impact, and position itself for membership in the Association of American Universities (AAU) through:

• Expanding world-class interdisciplinary research, creative, and scholarly endeavors.
• Promoting globally competitive undergraduate, graduate and professional programs that support interdisciplinary inquiry, intellectual development, knowledge and skill acquisition, and student success through a diverse, fully-engaged, learner-centered campus environment.
• Expanding local and global engagement initiatives to strengthen and sustain healthy communities and to improve the quality of life.
• Enhancing all sources of revenue, and maximizing effectiveness in business practices and financial management to establish a strong and sustainable economic base in support of USF’s growth.

Values
The University of South Florida values:

• Excellence in teaching and learning; scholarship and research (both basic and applied/translational); together with community engagement and public service based on the highest standards of discovery, creativity and intellectual attainment,
• Outstanding research and scientific discovery, including the application of new knowledge to solve state, national and global problems,
• Recruitment and retention of world-class faculty and high potential undergraduate and graduate students,
• Access to a world-class, globally relevant and affordable education, including utilization of alternative modes of delivery,
• Student competitiveness, success and academic achievement through knowledge, communication and critical thinking skill acquisition,
• Cultural and ethnic diversity and inclusion along with an enhanced global experience, understanding, and appreciation,
• Integrated, interdisciplinary inquiry and collaboration across departmental, college and campus boundaries,
• Facilitating the optimal development of personal and professional potential of students, faculty, and staff, and enriching the quality of an engaged campus community,
• Shared governance structures that empower all USF stakeholders, campuses and entities to reach their full potential,
• The creation and support of a premier university system that adds value to the region, state and nation while ensuring necessary levels of autonomy and preserving the distinctive regional and strategic identities of all member campuses and entities,
• An environment of collegiality based on the principles of academic freedom, respect, integrity, civility, the freedom to engage in debate, the exchange of ideas and intellectual discovery, and professional responsibility,
• Mutually beneficial partnerships and community engagement that increase the understanding of, and present solutions to, local and global challenges, with a mind to strengthening the economy and building sustainable healthy communities,
• An entrepreneurial spirit and innovation with a focus on defining, informing and generating “next best practices”,
• The utility of proven and emerging technologies to enhance instruction, learning, research and engagement, and to improve service quality and efficiencies in institutional business practices,
• Focus and discipline in aligning the budget and fiscal resources with institutional priorities and action, and
• Transparent accountability along with timely and effective communication.
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 System) is composed of three separately accredited institutions, USF, USF St. Petersburg and USF-Sarasota-Manatee. USF consists of the main research campus in Tampa, which includes USF Health, its College of Marine Science in St. Petersburg. The USF System was awarded $380.4 million in research contracts and grants in FY 2008/2009. It has a $1.8 billion annual budget, an annual economic impact of $3.2 billion and serves more than 47,000 students. The USF System is a member of the Big East Athletic Conference.

About USF

Founded in 1956, the University of South Florida opened its doors in 1960 to 2,000 students. Since then, USF has achieved distinction in all areas — academics, sports, research and funding. USF, including USF Health, is located in northeast Tampa, a vibrant metropolitan area. The University serves more than 40,000 students and offers more than 230 degree programs at the undergraduate, graduate, specialists and doctoral levels, including the doctor of medicine.

USF comprises 12 colleges: Arts & Sciences, Behavioral & Community Sciences, Business, Education, Engineering, Honors, Marine Science, Medicine, Nursing, Pharmacy, Public Health, and The Arts. It is the largest and most comprehensive institution of the USF System and the only institution offering doctoral degrees. USF offers an Honors College for high-ability students, an extensive study abroad and internship program, interdisciplinary research opportunities, and a Center for Global Solutions that enables students to address real-world challenges affecting communities around the world. USF offers specialized academic guidance services for veterans taking advantage of the Post-9/11 Veterans Education Bill.

With more than 2,000 faculty members from some of the world’s most prestigious universities and research institutions, USF is the university chosen by many of the nation’s brightest students. Students come to USF from every state, every U.S. territory, and 157 countries around the world. Thirty-five percent of the student body is African American, Hispanic, Asian, Asian/Pacific Islander, Native American or other ethnicity. USF is included in the 2010 Hispanic Outlook in Higher Education’s annual list of the top 100 U.S. institutions that conferred the most college degrees on Hispanic students.

USF is included in the 2010 Princeton Review “Best 371 Colleges” listing of the country’s best institutions for
undergraduate education. Only about 15 percent of America’s 2,500 four-year colleges (and two Canadian colleges) are profiled in this ranking. In 2010, The Princeton Review also ranked USF as one of the nation’s 50 “Best Value” public colleges and universities.

Research and innovation at USF is focused on creating local, national and global solutions to society’s most difficult problems. With a strong focus in medical treatment and research, bioengineering, life sciences, and the arts, USF is one of Florida’s top three research universities and the USF System was awarded nearly $394.1 million in research contracts and grants during the 2009/2010 fiscal year. USF’s federal funds for academic research and development increased 213 percent from 2000 to 2007. According to the Chronicle of Higher Education, no other American university grew its federal research funding at a faster rate than USF.

USF is one of only three Florida public universities classified by the Carnegie Foundation for the Advancement of Teaching in the top tier of research universities (RU/VH), a distinction attained by only 2.2 percent of all universities. The University is also one of only 25 public research universities nationwide that holds both a RU/VH and community engaged designation by the Carnegie Foundation. USF is included in the 2009 President’s Higher Education Community Service Honor Roll, the highest federal recognition a school can achieve for its commitment to service-learning and civic engagement.

A member of the BIG EAST Athletic Conference, USF competes with NCAA Division 1 Conference rivals in 17 varsity sports. The men’s soccer team earned the 2008 BIG EAST championship title, men’s tennis earned the 2009 BIG EAST title and women’s basketball the 2009 WNIT championship. The USF Bulls excel on the field and in the classroom, with 162 student-athletes named to the 2009-2010 BIG EAST All-Academic Team.

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 Victims 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. The Center is home to REAL (Relationship Equality and Anti-violence League), an initiative to develop men as allies and leaders to end relationship and sexual violence.

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/](http://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](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.uusf.edu/parking_services](http://www.uusf.edu/parking_services).

**Housing:** Accessible on-campus residence hall housing is available for students with special needs. Specific information is available through Housing and Residential Education. Contact: [http://www.housing.usf.edu](http://www.housing.usf.edu).

**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/](http://usfweb2.usf.edu/EOA/).

**USF - Reasonable Academic Accommodations and Services for Students**

Ms. Deborah McCarthy, Director
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Tampa, FL  33620-6500
(813) 974-4309 (Voice)
Email Contact: [dmccarthy@usf.edu](mailto:dmccarthy@usf.edu)
Web Address: [http://www.sds.usf.edu](http://www.sds.usf.edu)
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 from qualified applicants of both genders and from all cultural, racial, religious, ethnic, and age groups. In the admission process there is no discrimination on the basis of these factors or on the basis of disability, veterans’ status, sexual orientation, or national origin. These policies are further described under “Applying for Admission” and “Requirements for Admission.”

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.

General Admission Policies
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, USF Sarasota-Manatee or USF Polytechnic in Lakeland, 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. Students admitted to USF St. Petersburg, Sarasota-Manatee or Polytechnic campuses who do not meet the differential criteria are restricted from changing their home campus or registering for courses offered by USF’s Tampa campus.

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 3.0 cumulative GPA, and a transfer student who does not meet the differential admission criteria must have earned at least 60 credit hours with a 2.75 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
ADMISSIONS AND RELATED MATTERS

UNIVERSITY OF SOUTH FLORIDA 2012-2013 UNDERGRADUATE CATALOG

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; the Social Work Program in the College of Behavioral and Community Sciences; all degree programs in the College of Business; Exercise Science in the College of Education; the Athletic Training Program in the College of Medicine; all degree programs in the College of Nursing; and the B.F.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

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, SAT Subject Area test scores or 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); two units of the same foreign language; and three additional units of academic electives.

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 for the current admission requirements.
Admission to the University is selective; therefore, meeting requirements does not guarantee admission.

4. Applicants submitting a GED diploma must have an overall score of at least 300 for all five tests and at least 50 on each of the five tests. GED holders must also submit an SAT or ACT score, as well as SAT subject tests that will be considered in assessing the applicant’s probability of success (also required of students in an approved home schooling program).

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 a 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), or. 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 440 or above, or an ACT English/Writing score of 17 or above and Reading Score of 18 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 440, Critical Reading 440, Writing 440
   b. ACT – English/Writing 17, Reading 18, 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. Once admitted to either USF system institution provisions will be placed on the students admission restricting students taking courses at USF St. Petersburg 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 Admission 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 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.

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. 1. For the current percentage required for admission, please consult the transfer admissions web page at www.usf.edu/admissions/transfers.

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 must have a 2.75; applicants for Athletic Training must have a 2.80 transfer GPA; applicants for Architecture must have a 3.00; and, applicants for Nursing must have a 2.50 with an A.S. in Nursing or a 3.65 with 60+ hours, including an AA degree. 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 2.50 with a maximum required GPA of a 2.75. Students will be notified through USF’s course management system (i.e., BlackBoard) 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 3.00 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, USF Sarasota-Manatee and USF Polytechnic will continue to consider applicants with a 2.00 transfer GPA, while USF Tampa will require a 2.75 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, USF Sarasota-Manatee and USF Polytechnic 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
(30 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 30-59 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 B average (transfer GPA of 3.0 on a 4.0 scale) 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 or FACTS 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.

Applicants with Associate in Arts (A.A.) degrees from Florida College System institutions will be admitted as juniors into the University within curricular, space and fiscal limitations. A.A. degree holders seeking admission to quota/limited access degree programs must also meet all requirements specified by the desired program. The admission of Florida College System A.A. transfer students is governed by the Articulation Agreement between state...
ADMISSIONS AND RELATED MATTERS

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:

1. 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.
2. Have an overall “B-” average as calculated by USF (transfer GPA of 2.75 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. Petersburg, USF Sarasota-Manatee and USF Polytechnic will consider admission with a 2.0 transfer GPA in non-limited access majors.
3. 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;
4. Meet the minimum grade point average required by the program if entering a limited access program and transferring 60 or more semester hours.
5. 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.
6. 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 http://usfweb2.usf.edu/admissions/information-for-transfers.html.

Upper-level transfer applicants to a limited access major in Nursing, Business or Mass Communication must meet program requirements prior to admission to the University. Refer to requirements listed in the College of Arts and Sciences (Mass Communication), College of Business, or College of Nursing section of the catalog.

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.

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/commissions* 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 the appropriate department for review by the faculty and the process may 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/issss/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.

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 must attend an on-campus, University Orientation on the campus in which they are admitted. Orientation on all campuses 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 is required for all new students to the University. 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, an appreciation of the liberal arts tradition and the development of creative, independent thought. (See complete description under Honors College.) Many scholarships are available for Honors students.

Potential FTIC students are actively recruited. Invited students present at least a 3.8 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 an FTIC may apply for admission once he or she has accumulated 45 college credits with a 3.5 GPA.

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 programs.

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 and graduate with at least an overall GPA of 3.3 and a USF GPA of 3.3 (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.

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. See: [http://flexible.dce.ufl.edu](http://flexible.dce.ufl.edu)

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 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 600 on either section; or a 29 on the EACT 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 (ADM 244, 4202 E. Fowler Avenue, Tampa, FL 33620) or visit http://honors.usf.edu/Adm_early.html for complete information.

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. Former or continuing USF degree-seeking students must file another application for admission and pay the non-refundable $30 application fee when applying for a second degree program, another level of study or readmission (see Readmission).

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](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 college 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](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.

**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.
The University of South Florida is committed to a holistic, multi-faceted approach to students’ learning. Learning is a transformative experience that happens both inside and outside the classroom. At USF, students expand their knowledge in the classroom through coursework, laboratories, and interaction with our faculty. Out of the classroom, students have opportunities to potentially apply their knowledge, learn additional skills and broaden their perspectives through leadership and involvement in student organizations, community service, event and program attendance, athletics, residence hall life, on-campus employment, and internships. Students that are engaged in their college experience have proven to be more likely to experience success and graduate.

DIVISION OF STUDENT AFFAIRS

As the creator and/or facilitator of many learning experiences, the Division of Student Affairs (in collaboration with colleagues across the university) contributes to the development of the educational environment that enhances students’ ability to transform into effective and engaged global citizens who are prepared and committed to positively impact the world around them.

We accomplish this by:
- Offering a broad range of educational, social, psychological, and recreational programs that increase students’ capacity to learn
- Providing facilities and services that foster the optimal living and learning environment on campus
- Facilitating the overall development of each student
- Enhancing the overall campus community.

Visit the Student Affairs Web site, www.sa.usf.edu, or contact any of the following departments for more information:

**Office of the Vice President of Student Affairs**
www.sa.usf.edu
(813) 974-5533 - ADM151

**Campus Recreation**
www.usf.edu/campusrec
(813) 974-3177 - REC
Intramural sports, sports clubs, fitness programs, outdoor recreation and special events highlight the many free offerings at our facilities that include a newly expanded indoor Recreation Center (with courts, running track, strength/cardio, etc.), fields, swimming pools, tennis courts, jogging trail, a ropes course, Riverfront Park, and more.

**Center for Leadership & Civic Engagement**
www.leadandserve.usf.edu
(813) 974-7595 - MSC1300
Students aspiring to get ahead will connect with our dynamic center, which provides students with opportunities to develop leadership skills and serve as engaged global citizens. Find yourself and your passion through numerous leadership programs and volunteerism in local, national and global service projects.

**Center for Student Involvement**
www.involvement.usf.edu
(813) 974-1001 - MSC3302
USF is bustling with activity created by more than 450 student organizations! Through a variety of organizations, activities, programs, events, workshops and services, we truly offer something for every student to get involved in and have fun while learning from great out-of-classroom experiences.

**Center for Victim Advocacy & Violence Prevention**
www.sa.usf.edu/advocacy/
(813) 974-5756 - SVC0067
Crime Victim Helpline: (813) 974-5757
Our professional Victim Services Practitioners provide free confidential services to students, faculty and staff (men and women), who experienced crime, violence, or abuse in incidents occurring on or off campus, to minimize the impact on victims’ academic, personal, and professional success. We also offer preventive educational programs.

**Counseling Center**
www.usf.edu/counsel/
(813) 974-2831 - SVC2124
Offering comprehensive psychological services to enhance the personal, social, academic, and career success of students, our professionally staffed center provides students with personal and confidential counseling services.

**Dean for Students**
www.sa.usf.edu/dean/
(813) 974-6677 - MSC4300
The Dean for Students Office serves as an advocate for all students. We are focused on connecting students to the resources they need to be successful in and out of the classroom, and promoting student engagement and community building. Our office also serves as a point of contact for students and families during emergency situations.

**Fraternity and Sorority Life**
www.usfgreeklife.com/
(813) 974-7335 - MSC2300
From social issues to academics, career preparation to community service, students prepare to become tomorrow’s leaders through fraternal experiences. Our office is dedicated to providing leadership opportunities for USF students that stress integrity, learning, leadership, and service.

**Housing & Residential Education**
www.housing.usf.edu
(813) 974-0001 - RAR229
We are students’ source for all information about housing and living-learning communities at USF. Focused on helping students succeed academically as well as socially, we are committed to creating a residential experience that contributes to learning, personal growth, and citizenship—not to mention memorable fun!

**Marshall Student Center**
www.msc.usf.edu
(813) 974-3180 - MSC
The hub of student life on campus, Marshall Student Center (MSC) is where USF students head to get involved in student organizations, participate in programs, attend events, enjoy alternative dining, shop, use the computer lab, study or just hang out with friends.

**Office of Multicultural Affairs**
www.ctr.usf.edu/multicultural/
(813) 974-5111 - MSC3300
We excel in inspiring and educating students to develop cultural competencies and to be conscientious global citizens through a variety of educational and entertaining programs and events. We even offer a certification program for cultural competency that’s unique to our university.

**Office of Veterans Services**
www.veterans.usf.edu/
(813) 974-2291 - SVC2127
We proudly serve the veterans, active duty servicepersons, reservists, and dependents of benefits eligible veterans enrolled with USF. We help student veterans achieve academic success by acting as liaison with faculty, staff, and the Veterans Administration, to ensure students receive earned benefits and the support they may need on campus.

**New Student Connections**
www.newstudent.usf.edu/
(813) 974-2896 - MSC3200
New Student Connections helps first-year and transfer students’ transition, adjust and connect to the campus community. Through programs, partnerships, and mentoring, we offer opportunities for students to form meaningful connections that provide a foundation for success in their first year and throughout their college experience.

**The Oracle**
www.usforacle.com
(813) 974-6242 - SVC0002
The Oracle is USF’s editorially independent, student-run news outlet that produces the campus newspaper Monday through Thursday in the fall and spring semesters, and Monday and Thursday in the summer semester. Not only do we help keep students informed of campus news, we also offer learning opportunities for students who join our staff.

**Parent and Family Programs and Services**
www.sa.usf.edu/pfa/
(813) 974-9212 - ADM151
Our office provides resources for students’ families that will assist them with the growth and development of their student, while creating opportunities for parents and families to be involved in the lives of their students while at USF.

**Student Government**
www.sg.usf.edu
(813) 974-2401 - MSC4303A
Student Government at USF offers the premier opportunity for students to become engaged in our campus community by becoming part of the government, participating in our many activities, and/or utilizing the services provided, while being equally heard and represented on campus.
Student Health Services
www.shs.usf.edu
(813) 974-2331 – SHS (just east of the Bookstore)
We are an accredited, on-campus medical clinic that provides registered students with health and wellness services. Appointments are required to see a healthcare provider. There is no out-of-pocket charge for general office visits and specialized services are charged at discounted rates. SHS accepts many health insurance plans and any expenses can be paid by Visa/Mastercard or transferred to the student’s OASIS account.

Student Rights and Responsibilities
www.sa.usf.edu/srr
(813) 974-9443 - RAR234
Our mission is to provide for the safety and well-being of the USF environment while encouraging individual responsibility and acceptable behavior in line with community standards and the Student Code of Conduct.

Students with Disabilities Services
www.sds.usf.edu
(813) 974-4309 - SVC1133
Students with Disabilities Services promotes effective self-advocacy and accessible academic learning for students with disabilities. Our office fosters access for students and attitudes that reflect both an awareness of disability issues and universal design principles. Contact us for information regarding the accommodations process.

Wellness USF
www.wellness.usf.edu
(813) 974-4936 - MSC1504
Wellness USF serves as a central resource for free health and wellness information and referrals for students on campus. We coordinate awareness events, presentations, and on-line programs, as well as offer free individual consults, condoms, blood pressure screenings, weight and height readings, and more.

Office of the Student Ombudsman
Location/Phone: ALN 191; (813) 974-7107
Web Address: http://www.sa.usf.edu/dontstopdontdrop/index.htm
The Office of the Student Ombudsman serves as a confidential, neutral third party providing information, advice, intervention and referrals to all USF students. The Student Ombudsman works with students to resolve a variety of problems.
Don’t Stop, Don’t Drop! is an USF initiative of the Office of the Student Ombudsman and was created to assist USF students who find themselves challenged by the economic downturn. This initiative works to find solutions to students’ immediate financial need or to help locate with other resources for students. Please visit the Student Ombudsman for additional guidance, analysis of need and recommendation for resolution.

Important Policies
Students who attend the University of South Florida are subject to University policies in addition to guidelines established by the Board of Trustees of the University of South Florida. The Office of the Vice President of Student Affairs, along with other University officials, is charged with interpreting the policies of the Board of Trustees to students, their families, and others in the University community. To prepare students for successful lives after graduation, Student Affairs staff members foster an environment where students are challenged and supported to make good decisions and to learn from the outcomes of those decisions. Students are expected to take primary responsibility for their education: they are accountable to know and fulfill academic requirements, meet financial obligations, and adhere to the University’s expectations for appropriate conduct.

The following are important policies all students must read, understand and agree to comply with as students of USF.

Immunization Policy
I. INTRODUCTION (Purpose and Intent of the Policy)
In order to ensure the health and well-being 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 birthday. 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.

First Year Live on Campus Requirement
STUDENT AFFAIRS & STUDENT SERVICES

The University of South Florida is committed to providing all of its students with a comprehensive educational experience. There are numerous educational and social benefits for students living in the residence halls that may not be realized by those living off campus. With this understanding, USF requires all First Year undergraduate students enrolled as full-time students, as defined in the University of South Florida Undergraduate Bulletin, to live in on-campus housing. Students first enrolling in the summer are required to live in the residence halls during the summer, fall and spring terms. Students first enrolling in the fall are required to live in the residence halls during the fall and spring semesters. Students first enrolling in the spring are required to live in the residence halls during the spring semester. Many students continue to live on campus for their remaining years at USF.

Exemptions:
First year students may request to be exempt from the requirement to live in the residence halls if the student:
- Will reach the age of 21 prior to the first day of classes of their first term of enrollment,
- Is married,
- Has dependent family (children, parents, etc.) under the student’s care,
- Resides in the principal residence of a parent or legal guardian within the counties of: Hillsborough, Pasco, or Pinellas. Students desiring this exemption must provide parent or legal guardian endorsement.

In addition, requests for exemption to the first year live-on-campus requirement on the basis of compelling individual circumstances will be considered.
Requests for priority consideration of exemption must be submitted according to the following schedule:
- Summer term of first enrollment – May 1
- Fall term of first enrollment – May 1
- Spring term of first enrollment – November 1

For additional information regarding requests for exemption, contact the Assignments Office of Housing & Residential Education.

Failure to comply with the first year live-on requirement by not registering for housing, assuming occupancy in a University residence hall, and/or providing false or misleading information in connection with a request for exemption will be referred to the Office of Student’s Rights and Responsibilities and may result in cancellation of enrollment and revocation of student status at the University of South Florida.

If a first year student is removed from on-campus housing due to disciplinary action, the student may also be suspended from the University. As all first year students must live in on campus housing and housing is allocated accordingly, any first year student whose conduct results in their being forced to leave on campus housing due to violations of the contract or the USF Code of Conduct shall be responsible for the ENTIRE housing fee. No refund or credit will be given to the student if removed from housing for cause.

Standards of Conduct

Just as the University maintains high standards of academic performance, the members of the University community support high standards of individual conduct and human relations. Responsibility for one’s own conduct and respect for the rights of others are essential conditions for the academic and personal freedom within the University community. Self-discipline and sensitivity to the rights and interests of others are the principal elements of the University Student Code of Conduct. The Student Code of Conduct sets forth a foundation of values that represent a standard of expected behavior both inside and outside the classroom. The University reserves the right to deny admission or refuse enrollment to students whose actions are contrary to the purposes of the University or impair the welfare or freedom of other members of the University community.

Conduct Procedures

Student Conduct procedures are followed when a student fails to exercise his/her responsibility in an acceptable manner or commits an offense as outlined in the Student Code of Conduct (http://www.sa.usf.edu/srr). The University conduct procedures afford students the opportunity to participate in discussions of the matter and to present information in one’s own behalf, to seek an advisor in one’s own best interest, and the right of appeal. Students are entitled to participate in the development of standards of conduct supporting their interests in the purpose of the University. The University conduct procedures are described in the student planner and on the Student Rights and Responsibilities website (http://www.sa.usf.edu/srr).

For Non-Academic Grievances

In order to assure that student rights are preserved in our community, the Office of Student Rights and Responsibilities administers the University Student Code of Conduct. Any student may file a question, complaint, or statement of grievance in the Office of Student Rights and Responsibilities, in person or in writing. Forms are available in the Office of Student Rights and Responsibilities or on our website.

For Academic Grievances
Students should follow the academic grievance procedure which can also be found in the student planner.

University Bookstores

The on-campus bookstores are owned by the University of South Florida and operated by Barnes & Noble College Bookstores, Inc. The primary function of the university bookstores is to extend services to the students, faculty, staff, alumni and visitors of the university. The USF Bookstore and the Health Sciences Bookstore are located on the Tampa Campus. VISA, MasterCard, Discover and American Express are accepted at all stores. The USF Bulls Bucks may also be used for purchases in store.

The USF Bookstore & Cafe

Location: On Martin Luther King Plaza between the Marshall Center and the Student Services Building.
Phone: (813) 974-2631
Usual Hours: Monday through Thursday from 8:00 a.m. - 7:00 p.m., Friday from 8:00 a.m. - 5:00 p.m. and Saturday from 10:00 a.m. - 4:00 p.m. Extended hours and additional registers open at the beginning of each term.

Web Address: http://sftampa.bncollege.com

The bookstore offers a wide variety of books and merchandise including: all course-required supplies and textbooks (with a wide variety of purchasing options); textbook rentals and digital textbooks; a complete selection of writing implements, folders, paper and other class supplies; a wide selection of fiction, nonfiction and magazine titles; college clothing; class rings; imprinted souvenirs and gift items. The bookstore also features a full service café proudly serving Starbucks products. Visit the internet café on our second level for lunch or a coffee break.

Personnel are available to assist customers in finding and/or ordering course texts and general books. A year-round Buyback Program offers a source for cashing in used textbooks. An on-line store for textbook reservations and/or delivery for every semester is also provided.

Health Sciences Bookstore

Location/Phone: Medical Center (MDC 1050); (813) 974-4984
Usual Store Hours: Monday through Friday from 7:30 a.m. to 5:00 p.m. Extended hours at the beginning of each term.
Web Address: http://usfhsc.bkstore.com

Store features medical textbooks and equipment, professional apparel, USF-imprinted clothing, greeting cards, gifts, and a large convenience selection.

USF I.D. Card

The USFCard is the official I.D. card of the University of South Florida. It provides electronic verification and validation for a variety of University services and functions. University policies require that all student, faculty and staff members carry the USFCard while on campus. Students may be denied services if they do not have one. The USFCard may also be used to make purchases from on-campus copiers, snack and vending machines equipped with card readers. Value can be added to the vend stripe at Bull Buck machines located around campus. For additional information: http://it.usf.edu/services/usfcard.
We are “USF World”… the front door to USF’s international activities and programs. Just the name “USF World” implies that our efforts and responsibilities encompass all aspects of the university’s engagement with the world and in the world. USF is here to support students, faculty and staff as we focus on a goal of global citizenship.

Confucius Institute

Phone: (813) 974-4391
Web Address: www.global.usf.edu/confucius
Contact Email: chinese@usf.edu

The USF Confucius Institute is one of over 300 Confucius Institutes across the world. USF is the first university in Florida and the first major public research university in the Southeast United States to establish a Confucius Institute. Collaborating with the Department of World Languages, the USF Confucius Institute offers Chinese language and culture classes year round.

Center for India Studies

Location/Phone: CGS 101; (813) 974-8439
Web Address: www.global.usf.edu/indiastudies
Contact Email: ggrawal@cas.usf.edu

The Center for India Studies is committed to a multi-directional flow of knowledge and scholarly exchange that enhances local and global communities. The Center’s mission is both to enhance academic research and curricular understanding about the Indian subcontinent and to share the wealth of India’s cultural, spiritual and artistic traditions with the world community. It aims to promote a comprehensive understanding of the world’s largest democracy through a balanced offering of courses, guest lecturers, community outreach, and through collaboration with academic institutions in India.

Office of International Services

Location/Phone: CGS 101; (813) 974-5102
Contact Email: internationalservices@iac.usf.edu
Web address: http://global.usf.edu/isss/

International Services at USF is the main administrative and immigration advising office for more than 1,700 international students and 200 research scholars from over 130 countries.

Education Abroad Office

Location/Phone: CGS 101; (813) 974-4314 Gateway Office: MSC 3301
Web Address: http://global.usf.edu/educationabroad
Contact Email: studyabroad@iac.usf.edu

The Education Abroad Office (EAO) offers a variety of study abroad opportunities in over 25 countries, these include: semester exchanges, dual degree programs, summer and short term programs, international internships, and service learning. Programs range from one week to one year and award academic credit in all academic disciplines. The EAO facilitates the incoming and outgoing exchange process and works closely with our international partner universities to develop new academic programming and exchanges.

The Education Abroad Office provides extensive planning and in-country assistance and safety and wellness support for both students and faculty program leaders, including pre-departure orientation sessions, emergency assistance and re-entry programming. Staff members have extensive experience in study abroad and are able to offer seasoned, insightful advising and information to anyone considering or planning a study abroad experience.

Peace Corps

Location/Phone: CGS 101; (813) 974-9948
Web address: www.global.usf.edu/peacecorps.php
Contact Email: peacecorps@iac.usf.edu

The Peace Corps at USF provides students and members of the Tampa Bay community with an unparalleled opportunity to learn about other people, develop language and career skills, and help improve the quality of life for people in developing countries. The goals of the Peace Corps are to promote peace and stability through education and training; foster understanding of other peoples among Americans; and enhance other peoples’ understanding of Americans. About 7,000 volunteers currently serve in more than 70 countries around the world, and to date about 170,000 Americans have volunteered since its establishment in 1961 by President John F. Kennedy.
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.

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 will be affected.

Current fees are posted in the Schedule of Classes and on the OASIS website (http://usfonline.admin.usf.edu/).

a. **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.

b. **Cashier's Office Hours** - Regular Registration - See regular registration dates and times in “Schedule of Classes.” Regular Cashier’s Office hours are Monday through Friday from 9:00am - 5:00pm.

c. **Tuition Fee Payment** - Access the “Tuition Fees and Payments” option in OASIS at http://usfonline.admin.usf.edu/.

d. **Off-Campus College of Education Courses** - Students enrolling for off-campus (Continuing Education) courses will be assessed fees according to the fee structure “a” above. Continuing Education courses are designated by the “700 series” section number. The “Schedule of Classes,” which is printed each semester, should be used as a reference for updated information.

4. **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.

5. **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.

6. **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.

7. **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 metered) by the fifth day of the term. The University cannot be responsible for lost or misdirected U.S. Postal mail.

8. **Employee Tuition Program**

   The USF Employee Tuition Program authorizes full-time USF employees that 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.

   **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 day (per “Schedule of Classes”) to pay tuition in full.

9. **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.

10. **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.

11. **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.**

12. **Meal Plans**

    Students are required to purchase a meal plan if they have not lived in the residence halls at USF/Tampa
FINANCIAL INFORMATION

UNIVERSITY OF SOUTH FLORIDA 2012-2013 UNDERGRADUATE CATALOG

campus prior to the 2010-2011 academic year (summer residence not included) and must submit a meal plan contract in order for housing to be processed. In order to be considered voluntary, students must have 12 college attended credit hours (dual enrollment not accepted), have lived on the USF Tampa campus for one year or do not live on campus. All meal plans are a two-semester commitment. Students must sign up for the same amount (dollar value) in the spring as they did in the fall semester.

Meal Plans

USF requires all first-year undergraduate students, as defined in the University of South Florida Undergraduate Bulletin, 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 for more information.

Whether you eat every meal on campus or just grab a bite now and then, you’ll love the value, variety and convenience of a meal plan. Get what you crave and catch up with friends at our four friendly, comfortable, all-you-can-eat locations, serving international and home-style entrees. Your made-to-order meal is prepared in front of you, plus your favorites from the grill, deli or salad bar are always there for breakfast, lunch, dinner and late night. Each meal plan comes with meals and Dining Dollars. Meals can be used at the four dining halls: Champion’s Choice, Fresh Food Company, Bulls Den Café and Juniper Dining. Dining Dollars can be used at any USF Dining location on campus.

Level 1
Available to first year students living on campus (mandatory), students living in suite or traditional style residence halls and voluntary students:
• 7 Day All Access + $225 Dining Dollars: Includes unlimited entry into Champion’s Choice, Fresh Food Company, Bulls Den Café and Juniper Dining
• Any 15 + $325 Dining Dollars: Offers any 15 meals at Champion’s Choice, Fresh Food Company, Bulls Den Café and Juniper Dining. Meals reset every Wednesday morning and do not roll over week to week
• BULLBlock 165 + $250 Dining Dollars: Includes 165 meals per semester at Champion’s Choice, Fresh Food Company, Bulls Den Café and Juniper Dining. Unused meals expire at the end of each semester. Averages about 9-10 meals per week

Level 2
Available to mandatory students living in apartment-style residence halls or voluntary students:
• 5 Day All Access + $325 Dining Dollars: Includes unlimited access Monday – Friday during hours of operation at Champion’s Choice, Fresh Food Company, Bulls Den Café and Juniper Dining
• BULLBlock 100 + $350 Dining Dollars: Includes 100 meals per semester at Champion’s Choice, Fresh Food Company, Bulls Den Café and Juniper Dining. Unused meals expire at the end of each semester. Averages about 5-6 meals per week

Level 3
Available to voluntary students only:
• BULLBlock 60 + $350 Dining Dollars: Includes 60 meals per semester at Champion’s Choice, Fresh Food Company, Bulls Den Café and Juniper Dining. Unused meals expire at the end of each semester. Averages about 3-4 meals per week
• BULLBlock 40 + $375 Dining Dollars: Includes 40 meals per semester at Champion’s Choice, Fresh Food Company, Bulls Den Café and Juniper Dining. Unused meals expire at the end of each semester. Averages about 2-3 meals per week

Dining Dollar Plans
Flexibility makes it easy to get the most value out of your plan. Dining Dollar plans work like a bank debit card; each time you make a purchase, the total is subtracted from the balance on your account and can be used at any USF Dining location. Also, participants with Dining Dollars will receive a discounted entry rate into our four dining halls: Champion’s Choice, Fresh Food Company, Bulls Den Café and Juniper Dining. Dining Dollars can be reloaded in increments of $100, and receive 10% extra for each $100 purchased.
• $300 Dining Dollars: Pay $300 receive $330
• $500 Dining Dollars: Pay $500 receive $550
• $1000 Dining Dollars: Pay $1000 receive $1100

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

NOTE: Information is subject to change. For the latest updates and hours of operation, please visit our website at www.usfdining.com.
FINANCIAL INFORMATION

UNIVERSITY OF SOUTH FLORIDA 2012-2013 UNDERGRADUATE CATALOG

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 (Student Accounting or Student Accounting Information Desk) SVC Room 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.

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 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 our web site. Check out USF’s scholarship information at http://usfweb2.usf.edu/finaid/scholarships/ University Scholarships & Financial Aid Services communicates important information regarding your aid via e-mail throughout the year. Therefore, it is extremely important that you ensure that your current e-mail address for financial aid is in OASIS.

Tuition, housing and meal plan deferments are automatically posted for qualified financial aid applicants. The deadline for deferred tuition payment can be found at www.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 campus has financial representatives:
- Tampa (813) 974-4700
- Sarasota-Manatee (941) 359-4459
- USF-St. Petersburg (727) 553-4128

If you are outside the calling area, call us at 1-877-USF-BULLS.

**Academic Scholarships**

1. 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 can be found at: [http://usfweb2.usf.edu/finaid/scholarships/](http://usfweb2.usf.edu/finaid/scholarships/).

2. The Office of Undergraduate Admissions at the University of South Florida 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.

3. The individual colleges of the University (the College of Business, the College of Education, etc.) administer some scholarships directly through the Dean’s Office in each college. New and transfer students are advised to contact the USF Office of Undergraduate Admissions first. Information on individual colleges’ scholarship opportunities can be found on the USFAS website indicated above.

**Parking and Transportation Services**

**Do I have to have a parking permit?**

Parking permits are required to park at the University of South Florida 24 hours a day, 7 days a week, including holidays. Permit types are used to designate parking locations on campus, such as resident, non-resident, Park-n-Ride, visitor, staff, etc. Each person may purchase only one vehicle permit (an additional permit for motorcycle, and/or a bicycle is allowed). Permits shall be purchased for the campus of primary assignment. If you don’t have a permit, you must park at a metered parking space or a timed space. For additional permit information visit our website at [http://www.usf.edu/parking_services](http://www.usf.edu/parking_services) or call 974-3990, Option #1.

**How do I obtain a permit?**

Online through [www.my.USF.edu](http://www.my.USF.edu). Use your NetID to login and access your parking account by selecting the “Services” tab and clicking on the Parking & Transportation box. Parking permits may also be purchased at the following locations:

**USF Tampa Parking and Transportation Services**

(Located off of USF-West Holly between USF-North Palm and USF-Magnolia)

Parking Service Lobby hours: Mon – Thurs 7:30 am to 5:30 pm, Fri 7:30 am to 5:00 pm

All office hours are subject to modification and are extended at the beginning of the term. Visit our website [http://www.usf.edu/parking_services](http://www.usf.edu/parking_services) for office location and hours of operation.

Daily visitor permits can be purchased from the Campus Information Center (USF-Leroy Collins Blvd. & Fowler Ave.) Monday – Friday 7:00 am – 5:00 pm, also from parking permit machines located within designated visitor lots. Parking maps and brochures are available with details and lot designations.

**Do Visitors need a parking permit?**

Yes. The daily parking fee is currently $5.00. The fee is applicable to visitors and event attendees who park in visitor lots as defined in the parking brochure. Visitors may take advantage of the Fare Free Campus Shuttle to travel to their destinations on campus with a Bull Runner pass, which may be obtained from the Parking Services office or accompanied by an individual with a USF ID.

**Bull Runner**

Bull Runner bus service is provided to USF faculty, staff, students and visitors from 7 a.m. until midnight, Monday through Thursday, and 7 a.m. to 5:30 p.m. on Friday. The C & D & F routes run Saturday and Sunday from 2:30 p.m. to 9:30 p.m. Bull Runner routes cover the entire USF Tampa Campus, and the following off campus locations: 42nd St., Skipper Rd., and 46th St.; and the University Mall with a stop at UATC; 50th Street to Bougainvillea to McKinley.
Visitors must be accompanied by a USF ID Card holder to board the bus or have a Bull Runner pass. The weekend routes (C & D & F) offer extended service to the USF Library, University Mall and various shopping locations. Check out our Web site at http://www.usf.edu/bullrunner for the most up to date information. Routes and schedules are subject to modification. Ride the Bull Runner and save time and money.

In addition to the Bull Runner, USF students may ride HART routes fare free with their USF (ID) card. For more information call HART at 254-4278 or visit their web site at HART www.hartline.org.

**Motorist Assistance Program (M.A.P.)**

How can I get help when I have a problem with a vehicle?

Need to jump start your car? Low tires? Call (813) 974-8040. This FREE service is provided 24/7 except holidays. After 8:30 PM Monday through Thursday and after 4:30 PM on Friday, call Allied Barton Security dispatch at 813/974-3952 for assistance.

**Bicycle Permits**

Permits for bicycles are FREE! A bicycle permit registers the bicycle and can provide information to the police in the event of loss.

What happens if I get a parking ticket?

Parking regulations are designed to provide safe and orderly parking. Violation of these regulations can result in parking citations, immobilization of your vehicle or towing. Creating, modifying, altering a parking permit or being in possession of a lost or stolen permit is a serious violation and will result in immediate immobilization or towing of the vehicle and possible revocation of campus parking permit. If you receive a parking citation and believe that extraordinary or mitigating circumstances warrant a waiver then you may petition Parking and Transportation Services within 14 days for reconsideration. Respond to parking citations within 14 days of issuance to avoid late fees. Most common citations are for no permit, expired parking meter, and parking out of assigned area. To appeal a parking citation visit our website http://www.usf.edu/parking_services, and file your appeal electronically. Failure to respond to parking citations could result in collection agency efforts and additional cost.

**Additional Questions?**

Visit the Parking and Transportation Services website at http://www.usf.edu/parking_services. You can check your account status, update vehicle information, and submit questions and suggestions. Check for all late breaking news and updates concerning parking and shuttle service. Or you may contact the Tampa Campus Parking & Transportation Services at (813) 974-3990.

**Special Services**

**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 web site: 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.
REGISTRATION

UNIVERSITY OF SOUTH FLORIDA 2012-2013 UNDERGRADUATE CATALOG

Office of the Registrar

Locations/Phone: SVC 1034; (813) 974-2000
Web Address: www.registrar.usf.edu

The Registrar’s Office provides a wealth of student, academic, and administrative services. The Registrar’s Office is responsible for maintaining each student’s academic record from the time of admission to degree. Therefore, virtually every USF student is a consumer of services provided by the Registrar’s Office.

Registrar’s staff publishes the University Schedule of Classes (online only), coordinate registration and drop/add activities, process grade information each semester, and prepare transcripts. Registrar’s staff process graduation applications and also review and act upon student requests for reclassification of residency and process changes of name and student I.D. number. USF diplomas are outsourced, and print for students. Newly admitted students, view their grades in petitioning the Academic Regulations Committee (ARC), requesting fee adjustments, late registration fee waivers, or posting of grade forgiveness will find information and forms on the web.

The Registrar’s Office provides information and services to students via OASIS, the University’s Online Access Student Information System. Using their Net ID and self-declared password, students can register and drop/add, process address changes, access registration appointment and hold information, request privacy, view their grades and order transcripts. Students can also browse the University Schedule of Classes. Information and services are continually being added for students.

Although technology is being used as an enabler to provide better service, Registrar’s staff provides in-person information and services in its lobby area as well as over the telephone. Records and Registration offices are also located on every regional campus.

The Office of the Registrar maintains the official academic records for all students and course registrations for currently enrolled students. Students are encouraged to contact the Office of the Registrar about general questions concerning academic policies and procedures of their current registration or academic record.

Note: Each student must be aware of the University’s academic policies and procedures insofar as they affect him/her.

Immunization Policy

For immunization information, see the Immunization Policy located in the Student Affairs section of the catalog.

SUS Health 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.

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.”

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). TRAC also serves as a point of contact for non-degree seeking students who need information about
the University’s academic policies.

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.

Course Attendance at First Class Meeting

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.

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 Blackboard for each course section. The first day class roll is used by professors 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 or the department prior to the first class meeting to request waiver of the first class attendance requirement. Please note that the Registrar’s Office does not add students to any courses. Students are required to add their course via OASIS. 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 5th day of classes.

This policy is not applicable to courses in the following categories: Educational Outreach, Open University (TV), FEEDS Program, Community Experiential Learning (CEL), Cooperative Education Training, and courses that do not have regularly scheduled meeting days/times (such as, directed reading, or study, individual research, thesis, dissertation, internship, practica, etc.). Students are responsible for dropping undesired courses in these categories by the 5th day of classes to avoid fee liability and academic penalty.

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). Students who are unable to log-in to their course(s) due to circumstances beyond their control must notify the instructor or the department prior to the calendar start date of the course to request waiver of the first class attendance requirement.

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 term. 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.

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.

**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](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 Purchasing and Financial Services. See “Refund of Fees” under Financial Information for complete details.

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.
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.

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
DegreeWorks Academic Advising System

Web Address:  https://degreeworks.usf.edu/

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
   - USF Agency Clerk
   - SVC 1034
   - Office of the General Counsel
   - 4202 Fowler Avenue
   - 4202 Fowler Avenue - ADM 250
   - Tampa, Florida 33620
   - 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):
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.

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
 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.

Courses that meet Gordon Rule Communication requirements are:

<table>
<thead>
<tr>
<th>Communication (12 semester hours)</th>
</tr>
</thead>
<tbody>
<tr>
<td>AFA 2000 Introduction to the Black Experience [In Africa and Its Diaspora]</td>
</tr>
<tr>
<td>AFA 4150 Africa and the United States</td>
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<tr>
<td>AFA 4335 Black Women in America</td>
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<tr>
<td>AFS 2250 Culture and Society in Africa</td>
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<tr>
<td>AFS 3153 African Literature Survey</td>
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<tr>
<td>AML 3604 African American Literature</td>
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<tr>
<td>AML 4303 Zora Neale Hurston: Major Works</td>
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<tr>
<td>AML 4624 Black Women Writers</td>
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<tr>
<td>AMS 3001 American Culture 1880-1915</td>
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<tr>
<td>AMS 3230 America During the 1920s &amp; 1930s</td>
</tr>
<tr>
<td>AMS 3260 American Culture, 1830-1860</td>
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<tr>
<td>AMS 3370 Southern Women: Myth &amp; Reality</td>
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<tr>
<td>AMS 3615 Film &amp; American Society</td>
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<tr>
<td>ANT 4172 Historical Archaeology</td>
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<tr>
<td>ANT 4241 Anthropology of Religion</td>
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<tr>
<td>ANT 4340 The Caribbean</td>
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<tr>
<td>ANT 4432 The Individual and Culture</td>
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<tr>
<td>ANT 4620 Language and Culture</td>
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<tr>
<td>ANT 4750 Language and Social Interaction</td>
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<tr>
<td>ANT 4935 Rethinking Anthropology</td>
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<tr>
<td>ARC 4784 The City</td>
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<td>RUT 3111</td>
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</table>

All the above courses require 4,500 written words per course. IDH courses will fulfill the writing requirement for University Honor students only.

**Computation (6 semester hours)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Notes</th>
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</thead>
<tbody>
<tr>
<td>CGS 2060</td>
<td>Introduction to Computers and Computer Programming</td>
<td>MAS 4156 Vector Calculus</td>
</tr>
<tr>
<td>COP 4313</td>
<td>Symbolic Computations in Mathematics</td>
<td>MAS 4214 Elementary Number Theory</td>
</tr>
<tr>
<td>MAA 4211</td>
<td>Intermediate Analysis I</td>
<td>MAT 4930 Selected Topics in Mathematics</td>
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<tr>
<td>MAA 4212</td>
<td>Intermediate Analysis II</td>
<td>MAT 4937 Mathematics Majors Seminar</td>
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<tr>
<td>MAA 4402</td>
<td>Complex Variables</td>
<td>MAT 4970 Mathematics Senior Thesis</td>
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<tr>
<td>MAC 1105</td>
<td>College Algebra</td>
<td>MGF 1106 Finite Mathematics</td>
</tr>
<tr>
<td>MAC 1114</td>
<td>Precalculus Trigonometry</td>
<td>MGF 1107 Mathematics for Liberal Arts</td>
</tr>
<tr>
<td>MAC 1140</td>
<td>Precalculus Algebra</td>
<td>MGF 3301 Bridge to Abstract Mathematics</td>
</tr>
<tr>
<td>MAC 1147</td>
<td>Precalculus Algebra and Trigonometry</td>
<td>MGF 4403 The Early History of Mathematics</td>
</tr>
<tr>
<td>MAC 2233</td>
<td>Business Calculus</td>
<td>MGF 4406 The History of Modern</td>
</tr>
<tr>
<td>MAC 2241</td>
<td>Life Sciences Calculus I</td>
<td>MTG 3212 Geometry</td>
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<tr>
<td>MAC 2242</td>
<td>Life Sciences Calculus II</td>
<td>MTG 4214 Modern Geometry</td>
</tr>
<tr>
<td>MAC 2281</td>
<td>Engineering Calculus I</td>
<td>MTG 4302 Introduction to Topology</td>
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<tr>
<td>MAC 2282</td>
<td>Engineering Calculus II</td>
<td>PHI 2101 Introduction to Formal Logic</td>
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<tr>
<td>MAC 2283</td>
<td>Engineering Calculus III</td>
<td>PHI 3130 Formal Logic</td>
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<td>MAC 2311</td>
<td>Calculus I</td>
<td>PSY 3204 Psychological Statistics</td>
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<tr>
<td>MAC 2312</td>
<td>Calculus II</td>
<td>QMB 2100 Business and Economic Statistics</td>
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<tr>
<td>MAC 2313</td>
<td>Calculus III</td>
<td>QMB 3204 Psychological Statistics</td>
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<td>MAD 3107</td>
<td>Discrete Mathematics</td>
<td>STA 2023 Introductory Statistics I</td>
</tr>
<tr>
<td>MAD 4401</td>
<td>Numerical Analysis</td>
<td>STA 2122 Social Science Statistics</td>
</tr>
<tr>
<td>MAD 4504</td>
<td>Theory of Computation</td>
<td>STA 3024 Introductory Statistics II</td>
</tr>
<tr>
<td>MAP 2302</td>
<td>Differential Equations</td>
<td>STA 4321 Essentials of Statistics</td>
</tr>
<tr>
<td>MAS 1100</td>
<td>Constructive Number Theory and Linear Algebra</td>
<td>STA 4442 Introduction to Probability</td>
</tr>
<tr>
<td>MAS 3105</td>
<td>Linear Algebra</td>
<td>MGF 1106 Finite Mathematics</td>
</tr>
</tbody>
</table>

41
ACADEMIC POLICIES AND PROCEDURES

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:

**Plus/minus Grades**

<table>
<thead>
<tr>
<th>Grade</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>A+</td>
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<tr>
<td>A</td>
<td>4.00</td>
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<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>
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<tr>
<td>B-</td>
<td>2.67</td>
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<tr>
<td>C+</td>
<td>2.33</td>
</tr>
<tr>
<td>C</td>
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</tr>
<tr>
<td>C-</td>
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</tr>
<tr>
<td>D+</td>
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</tr>
<tr>
<td>D</td>
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<td>D-</td>
<td>0.67</td>
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<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:

1. Required courses in the major may not be taken on an S/U basis.
2. Specifically designated required courses in the distribution requirements of the student’s college may not be taken on an S/U basis.
3. Courses to satisfy 6A-10.30 (Gordon Rule) may not be taken on an S/U basis.
4. Courses to satisfy Foundations of Knowledge (FKL) General Education may not be taken on an S/U basis.
5. Courses to satisfy USF’s B.A. foreign language requirement may not be taken on an S/U basis.
6. 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.

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” (available on the Office of the Registrar’s website) 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. 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.
   c. 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.
   d. 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.
   e. 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 baccalaureate 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 2.00 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 more than 60 credit hours 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 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 those 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: Non-degree-seeking students
- 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
- 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
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 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.

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 lesser 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.
ACADEMIC POLICIES AND PROCEDURES

UNIVERSITY OF SOUTH FLORIDA 2012-2013 UNDERGRADUATE CATALOG

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 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.

The procedures that follow are designed to ensure objective and fair treatment of both students and instructors. These guidelines are meant to govern all colleges (exclusive of the College of Medicine and the College of Pharmacy which maintain their own procedures), however, as individual USF system institutions, colleges or campuses may have different levels of authority or titles, each student must obtain the specific designations used by each entity for levels of authority and titles in the process with appropriate designations of authority if necessary.

In the case of grade appeals, the USF system reserves the right to change a student’s grade if it is determined at the conclusion of the grievance process that the grade given was incorrect. In such circumstances, the Dean or Provost/Sr. Vice President for Academic Affairs, the Regional Vice-Chancellor for Academic Affairs, or the Sr. Vice President, USF Health may file an administrative grade change. The term “incorrect” means the assigned grade was based on something other than performance in the course, or that the assignment of the grade was not consistent with the criteria for awarding of grades as described in the course syllabus or other materials distributed to the student. In the case of all other academic grievances, the USF system reserves the right to determine the final outcome based on the procedures detailed herein.

In the case of Academic Integrity (USF Regulation 3.027) violations, these Student Academic Grievance Procedures apply and include an Academic Integrity Review Process at the College Level as described in section III 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, committee member or chair, or counselor/advisor who interacts with the student in an academic environment.
“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 School, 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 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 issue is academic integrity, the burden of proof shall be upon the instructor. In considering grievances, decisions will be based on the preponderance of the evidence.

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 at the Department Level
1. 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 grade; the receipt of an assignment) and the instructor shall accommodate a reasonable request to discuss and attempt to resolve this issue.

2. If the situation cannot be resolved or a meeting with the instructor is not feasible, the student shall file a notification letter within three weeks of the triggering incident to the department Chairperson/Director. This shall be a concise written statement of particulars and must include information pertaining to how, in the student’s opinion, University system policies or procedures were violated. The department Chairperson/Director shall provide a copy of this statement to the instructor. The instructor may file a written response to the grievance.

3. The department Chairperson/Director shall discuss the statement 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.

4. 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. 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 at the College Level
1. Upon receipt of the grievance, the College Dean shall either determine that the matter is not an academic grievance and dismiss it (which is a final University decision) or within three weeks 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 at least one
ACADEMIC POLICIES AND PROCEDURES

UNIVERSITY OF SOUTH FLORIDA 2012-2013 UNDERGRADUATE CATALOG

member assigned to oversee, or with expertise, in that clinical area. In addition, deficiency in or violations of, clinical or professional standards may be sufficient to support academic failure or dismissal notwithstanding success in other areas of the academic record. The student or faculty may request to attend a Committee meeting. The Chairperson will designate which meeting the student or instructor may attend to present any final statement to the Committee. In addition, 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 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.

c. The student or instructor may bring an advisor (not to act as legal counsel or to participate in the meetings) to the meeting.

2. The Committee will operate in the following manner:
   a. The Committee Chairperson will be appointed by the College Dean from among the three faculty members appointed to the Committee.
   b. 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.
   c. In Committee reviews involving Academic Integrity, the following Academic Integrity Review Process shall be followed in addition to the other Department 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.

   d. All deliberations shall be in private and held confidential by all members of the Committee. The recommendation of the Committee shall be based on the factual evidence presented to it.
   e. Within three 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.
   f. Within three 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's recommendation.
   g. The student or the instructor may appeal the decision of the College Dean to the University Level only if the decision of the College Dean is contrary to the recommendation of the Committee (which will be indicated in the Dean's decision) or if there is a procedural violation of these Student Academic Grievance Procedures. Such an appeal must be made in writing to the Dean of Undergraduate Studies or Graduate School (as appropriate) within three weeks of receipt of the decision from the College Dean. Otherwise, the College Dean's decision is final and not subject to further appeal within the USF System, as provided in C. below.

C. Resolution at the University Level

The Provost/Sr. Vice President for Academic Affairs or the Sr. Vice President, USF Health has delegated authority to the Dean of Undergraduate Studies to act in place of the Provost/Sr. Vice President in all academic grievance appeals involving undergraduate students unless the grievance occurred in a program within Undergraduate Studies, wherein it will go back to the Provost to re-delegate. The Dean of Graduate School will act in place of the Provost/Sr. Vice President in all academic grievance appeals involving graduate students. The Regional Vice Chancellor for Academic Affairs at USF St. Petersburg may delegate authority to a designated academic administrator at USF St. Petersburg to hear the appeal at the University level. The Regional Vice Chancellor for Academic Affairs at USF Sarasota/Manatee may delegate authority to a designated academic administrator at USF Sarasota/Manatee to hear the appeal at the University level.

1. The student or the instructor may appeal at the University Level within three weeks of the receipt of a decision made at the College Level, when (1) the decision by a College Dean is contrary to the recommendation of a college Grievance Committee, (2) either party identifies a specific procedural violation in the application of these (AGP) that is concurred by the designated authority at the University level. Within three weeks of receipt of the appeal to the decision, the Undergraduate/Graduate Dean ("Dean") shall determine that the appeal is merited (there is a recommendation by the Dean contrary to the committee or there is cause to believe a procedural violation in application of the AGP process may have occurred). If the Dean determines
ACADEMIC POLICIES AND PROCEDURES

UNIVERSITY OF SOUTH FLORIDA 2012-2013 UNDERGRADUATE CATALOG

the appeal is not merited, the Dean shall advise the student accordingly and that notice shall be a final University Decision. If the appeal is determined to be merited, the Dean in consultation with the Faculty Senate and Student Senate shall appoint an Appeals Committee consisting of three faculty members drawn from the USF System Undergraduate Council or Graduate Council (as appropriate), and two students, undergraduate or graduate (as appropriate).

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 Undergraduate/Graduate Dean 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 Undergraduate/Graduate Dean, etc.).

3. Within three weeks of the appointment, the Committee Chairperson shall deliver in writing to the Undergraduate/Graduate Dean a report of the findings of the Committee and a recommended resolution.

4. Within three weeks of receipt of the Committee recommendation, the Undergraduate/Graduate Dean shall provide a decision in writing to all parties.

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

These procedures shall take effect commencing (February 10, 2009) and shall supersede all other academic grievance procedures currently in effect, with the exception of the procedures of the College of Medicine and the 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-week timeline (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
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
1. Students may not reproduce or transmit (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 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
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.

(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.
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 an 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 presents) the fundamentals of biological science, including genetics/speciation/evolution, growth/differentiation, metabolism/bioenergetics 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 (CAM) 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), OR a 6 credit Capstone Learning Experience (CLEX). 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, CPST, and/or the CLEX components in order to receive FKL Capstone Learning Experience credit.

**Capstone Experience – 6 hours**

- 3 Capstone (CPST)
- 3 Writing Intensive (WRN)
  - or
- 6 Capstone Learning Experience (CLEX)

In fulfilling the FKL required coursework, six (6) credits must be completed in Human Historical Context and Process courses (see the list below). 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 2.00.

Some courses are approved for more than one area of the FKL curriculum but a course can 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 can be counted for both the major AND the FKL curriculum.

**Foundations of Knowledge and Learning Courses**

**FKL English Composition (CAEC)**

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**FKL Fine Arts (CAFA)**

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**FKL Human and Cultural Diversity in a Global Context (CAGC)**

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59
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<td>GEF 4641 Death and Dying</td>
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60
ACADEMIC POLICIES AND PROCEDURES

UNIVERSITY OF SOUTH FLORIDA 2012-2013 UNDERGRADUATE CATALOG

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<td>Social Psychology</td>
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<td>Race and Ethnic Relations</td>
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<td>Issues in Feminism</td>
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<td>Introduction to Sociology</td>
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<td>Politics &amp; Issues in Women's Health</td>
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<td>The Image of Women in Literature</td>
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<td>Film &amp; American Society</td>
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<td>Literature and the Occult</td>
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<td>Great French Love Stories in English Translation</td>
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**FKL Human Historical Context and Process Dimension Courses (HHCP)**

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<td>ARH 4710</td>
<td>History of Photography</td>
<td>REL 2164</td>
<td>Introduction to Religion and Ecology</td>
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<td>ASH 2270</td>
<td>Southeast Asian History</td>
<td>REL 2300</td>
<td>Introduction to World Religions</td>
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<td>History of Education in the U.S.</td>
<td>REL 3131</td>
<td>New Religions in America</td>
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<td>Globalization and Technology</td>
<td>SPC 3710</td>
<td>Communication and Cultural Diversity</td>
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<tr>
<td>ENC 1101</td>
<td>Composition I</td>
<td>THE 2252</td>
<td>Great Performances on Film</td>
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<tr>
<td>ENL 3334</td>
<td>Shakespeare from a Historical Perspective</td>
<td>THE 3110</td>
<td>Theatre History I</td>
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<tr>
<td>EUH 2011</td>
<td>Ancient History I</td>
<td>THE 4330</td>
<td>Shakespeare for the Theatre</td>
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<tr>
<td>EUH 2012</td>
<td>Ancient History II</td>
<td>THE 4401</td>
<td>American Drama</td>
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<tr>
<td>EUH 2022</td>
<td>The Medieval West</td>
<td>THE 4562</td>
<td>Contemporary Performance Theory</td>
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<tr>
<td>EUH 2030</td>
<td>Modern European History I</td>
<td>WST 2250</td>
<td>The Female Experience in America</td>
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<tr>
<td>EUH 2031</td>
<td>Modern European History II</td>
<td>WST 4522</td>
<td>Classics in Feminist Theory</td>
<td></td>
</tr>
</tbody>
</table>
ACADEMIC POLICIES AND PROCEDURES

UNIVERSITY OF SOUTH FLORIDA 2012-2013 UNDERGRADUATE CATALOG

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 2.00 GPA, including a 2.00 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 and computation 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; 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 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 to the individual. (See Summer Enrollment Requirement below.)

**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:

<table>
<thead>
<tr>
<th>Classical Languages</th>
<th>Modern Languages</th>
</tr>
</thead>
<tbody>
<tr>
<td>Greek (Ancient)</td>
<td>Arabic</td>
</tr>
<tr>
<td>Greek (New Testament)</td>
<td>Greek (Modern)</td>
</tr>
<tr>
<td>Hebrew (Classical)</td>
<td>Polish</td>
</tr>
<tr>
<td>Latin</td>
<td>Portuguese</td>
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</tbody>
</table>

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 semester 2012, 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 (CHM-CBY)
  - Health Professions Concentration (CHM-CHH)
- Classics (CLS)
- Communication
  - Relational Communication (SPE-SRC)
  - Organizational Communication (SPE-SOG)
- Health Communication (SPE-SHC)
- Culture and Media (SPE-SMD)
- Performance Studies (SPE-SPS)
- Public Advocacy (SPE-SAD)
- Economics (ECO)
- English
  - Creative Writing Concentration (ENG-CRW)
  - Literary Studies (ENG-LIT)
  - Professional Writing, Rhetoric and Technical Writing (ENG-CWT)
- French (FRE)
  - French International Studies & Business Concentration (FRE-IFB)
Geography (GPY)
Geology (GLY)
German (GER)
History (HTY)
Humanities (HUM)
Interdisciplinary Classical Civilizations (ICC)
Interdisciplinary Social Sciences (ISS)
International Studies (INT)
Italian (ITA)
Mass Communications
  Advertising Concentration (COM-ADV)
  Journalism/Magazine Production Concentration (COM-MAG)
  News Concentration (COM-NWS)
  News Editorial Concentration (COM-JOU)
  Programming and Production Concentration (COM-PGM)
  Public Relations Concentration (COM-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 (SPA-ISB)
Statistics (STC)
Women's Studies (WST)

College of Arts and Sciences:

BACHELOR OF SCIENCE (B.S.)

Biology:
  Biology (BIO)
    Cell and Molecular Biology (BIO-CAM)
    Environmental Biology Ecology and Biodiversity (BIO-ENB)
    Environmental Biology Environmental Microbiology (BIO-ENB)
    Integrative Animal Biology (BIO-IAB)
    Marine Biology Concentration (BIO-MRN)
    Health Sciences (HLS)
    Microbiology (MIC)
Chemistry:
  Chemistry (CHS)
  Biomedical Sciences (BMS)
  Medical Technology (MET)
  Interdisciplinary Natural Sciences (INS)
Environmental Science and Policy (ESP)
Geology (GLS)
Information Studies (ITC)
Physics (PHS)

College of Behavioral and Community Service (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)
Physical Education (PET)
Exercise Science (BPW)
Science Education (SCE)
Biology (BSB)
Chemistry (BSC)
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.)
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.A./B.F.A.)
Ballet (DAB) (B.F.A.)
Modern (DAM) (B.F.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.)
American Sign Language (ASG) (B.S.A.S.)
Behavioral Healthcare (ABH) (B.S.A.S.)
Criminal Justice (ACJ) (B.S.A.S.)
Environmental Policy (AEP) (B.S.A.S.)
Gerontology (AGR) (B.S.A.S.)
Information Studies (IFS) (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.)
General Studies (BGS)

University College
General Studies (BGS) (B.G.S.)
Aging Studies (GAS)
Behavioral Healthcare (GBH)
Business (GBU)
Environmental Policy and Management (GEM)
Information Studies: Information Architecture (GFA)
Leadership (GSL)
Public Administration (GPA)
Public Health (GPU)
Urban Studies (GUS)
Women’s Studies (GWS)

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:

**Arts and Sciences:**
- Africana Studies
- American Studies
- Anthropology
- Biomedical Physics
- Chemistry
- Chinese Language
- Classics
- Communication
- Economics
- English:
  - Creative Writing
  - English and American Literature
  - Technical Communication and New Media
- Environmental Policy
- Film & New Media Studies
- French
- Geography
- Geology
- German
- History
- Humanities
- Interdisciplinary Classical Civilizations
- International Studies
- Italian
- Mass Communications
- Mathematics
- Microbiology
- Modern Greek
- Philosophy
- Physics
- Political Science
- Psychology
- Public Administration
- Religious Studies
- Russian
- Sociology
- Spanish
- Women’s Studies

**Behavioral and Community Services:**
- American Sign Language
- Applied Behavior Analysis
- Behavioral Healthcare
- Criminology
- Gerontology

**Business:**
- Accounting
- Entrepreneurship (for COB or ENG majors)
- Entrepreneurship (for non-majors)
- Finance
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:

Arts & Sciences

Africana Literatures
Asian Studies
Film Studies
Food Studies
India Studies
Italian Studies
Latin & Caribbean Studies
Modern Western European Studies
Russian Studies
Urban Studies

Behavioral & Community Sciences

Undergraduate Research in Behavioral & Community Sciences
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 Compact 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 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 college and be assigned an advisor in each discipline. The student must meet all requirements of each major separately and must be certified for graduation by the appropriate dean(s).

Second Undergraduate Major

A student who wishes to work for a second major, after receipt of a baccalaureate degree, must apply through the Office of Admissions and meet the major requirements as determined by the college. (Exceptions to this rule are students who had 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.*

*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 on-campus 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. 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.

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 or Associate in Arts certificate to the Office of the Registrar. This 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 ordering 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 who submit an application after the graduation application deadline, and wish to graduate in that term, will be assessed a $50.00 late fee. 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 by the deadline in a 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
Academic Policies and Procedures

University of South Florida 2012-2013 Undergraduate Catalog

(Teansitional 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 TRansitional 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 Provost for approval. If the Provost approves the recommendation, the Office of the Registrar will be notified and the degree will be awarded at the next commencement ceremony or will be presented to the student’s family in an appropriate setting.

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,” 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.
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. 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/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 completed in residence at the USF home institution; the minimum overall grade point average (USF GPA and transfer GPA) must be 2.00 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
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.
ACADEMIC PROGRAMS AND SERVICES

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:

1. CLEP credit will not satisfy USF’s residency requirement;
2. 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.

Descriptions of the examination content and other information are available from Educational Testing Service in Princeton, New Jersey.

The CLEP General and Subject Examinations are administered on the Tampa Campus. Testing 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 website at http://www.uc.usf.edu/testing/.

**Advanced Placement Credit Program**

The University participates in the Advanced Placement Program conducted by the College Entrance Examination Board. The Advanced Placement Test is based on specific college level courses that are offered in a number of high schools. Interested students should contact their high school counselors or principals for additional information. Please note: not all colleges will interpret AP test results in the same manner.

**Center for Africa and the Diaspora**

**Location/Phone:** CGS 232; (813) 974-5949  
**Web Address:** [http://ibl.usf.edu/cfad/](http://ibl.usf.edu/cfad/)  
**Contact Email:** crodriguez@usf.edu

The Center for Africa and the Diaspora was established within the Institute on Black Life to encourage and support research and scholarship on issues directly relevant to people of the African continent and the African Diaspora, particularly in Latin America, the Caribbean, and in Europe. The mission of the Center is to facilitate and promote knowledge production on complex issues relevant to the lives of contemporary Africans and the unique challenges of people in diasporan communities. Through a wide network of partnerships with institutions and organizations around the world, the Center also addresses issues related to health, economics, gender and violence, politics, genocide and dislocation in Africa and the diaspora.

**INTO University of South Florida**

**Location/Phone:** FAO 100; 1 (813) 905 4686  
**Web Address:** [www.intohigher.com/usf](http://www.intohigher.com/usf)  
**Contact Email:** besterfi@usf.edu

INTO University of South Florida (INTO USF) is a program of the University of South Florida which offers a range of programs for international students. INTO USF’s goal is to make entry to the university available for a wide range of international students by offering English language and academic pathways to smooth the transition into the American academic environment. INTO USF offers both general and academic English programs at all levels as well as undergraduate and graduate pathway programs designed to better prepare international students wanting to enter USF. The staff at the INTO USF Center works closely with students to enable them to express themselves in their new environment.

**Undergraduate Pathways Program**

Undergraduate Pathways provide academic, linguistic and cultural instruction and support to international students wanting to earn a Bachelor’s degree at USF. Students study alongside USF students in some courses as they complete the first year (or first semester) of a four-year degree. Programs start in the Fall, Spring and Summer semesters and can be one or two semesters in length. Undergraduate Pathways are available in: Business, Engineering, Computing, Science and General Studies.

**Graduate Pathways Program**

Graduate Pathways are for international students wishing to earn a Master’s degree in the USA. For one or two semesters, Graduate Pathway students study in mainstream USF graduate courses, with considerable additional support in English and GRE or GMAT test preparation. Following successful completion of the program, students will be admitted as degree-seeking graduate students at USF. Graduate Pathways are available in Business, Engineering, Mathematics, Architecture, Library Information Systems, Biology, Urban and Community Design, Medical Sciences, and Global Sustainability. All Business and Engineering majors start in the Fall or Spring Semesters semester, with all other pathways offer a Fall semester start.

**Academic English Program**

The Academic English program is an intensive-English program designed to prepare international students for entry into university study. Courses in this program develop students’ ability to use English to complete authentic academic tasks while building their knowledge of academic content and vocabulary. Courses also help students adjust to the demands, challenges, and expectations of the U.S. higher education system and culture. Students are placed into one of five levels according to their language proficiency. Students who complete Level 4 can enter a two-semester Pathway program, and students who complete Level 5 can enter a one-semester Pathway program, or seek direct admission to USF, if they meet GPA and standardized test score requirements.
General English Program

The General English program is an intensive-English program designed to improve international students’ ability to use English in a wide variety of social and professional situations. The program includes activities, culture projects, and real world tasks that develop students’ communicative skills in English while they learn about American culture. Each session is one month long, and students are grouped according to language level. Students can progress into Academic English for further study at USF.

Special English Programs

The INTO USF Center offers special English language programs designed to meet the needs of groups of students from overseas institutions. These programs are designed in consultation with the sponsors of these groups and may be taught in conjunction with one of the existing programs at INTO USF or delivered as a stand-alone program.

Diagnostic Testing

Students entering INTO USF’s Academic English program will take a computer adaptive test and a writing test to be placed into one of the 5 levels. Students in the General English program will take writing and speaking test to be placed into one of the 4 levels. At the end of each semester, students will be tested again to determine progress. INTO USF also offers the SPEAK exam for international teaching assistants.

Computer Learning Center

The INTO USF Computer Learning Center is a central part of the teaching and learning process both in structured classes and as part of a student’s independent learning. The Computer Learning Center has English language textbooks, audio and videotapes, CDs, DVDs, and language learning and test preparation software. Lab assistants are also available to support students.

Student Support

At INTO USF, our students come first. Our experienced student support team provides students with support from the moment they leave their homes to the moment they leave our program. INTO USF students have access to all the services and facilities at USF including the library, recreation center, Counseling Center, Student Health Center, sporting events, and much more. In addition, the INTO USF Student Support staff is always ready to address any issues related to the student experience including arrival, housing, health and welfare, immigration, language ambassadors, academic advising, and tutors. We offer our students workshops as well as activities that enhance their experience at USF and ensure that the university experience is accessible to all.

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
Web Address: http://gep.usf.edu/community/cel/
Contact Email: robinjones@usf.edu.

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 2.00 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

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.

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/.

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.

The Washington Center Internship Program

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

Contact Email: robinjones@usf.edu.

The USF Semester in Washington provides students of all majors with the opportunity to enjoy a semester of experiential and classroom learning in Washington, D.C. The program is conducted in partnership with The Washington Center for Internships and Seminars (TWC), which has provided over 40,000 students with comprehensive, participatory learning experiences in its 35 year history. Working together, USF and TWC provide a richly rewarding, internship-based experience that gives students the opportunity to explore a wide variety of career paths while being immersed in the intellectual and cultural diversity of our nation's capital or, in some cases, abroad. TWC’s 70 full-time staff members provide internship site placement and supervision services, academic programming, and excellent quality housing. Suitable internship sites can be provided for any major within the USF curriculum.

USF undergraduates earn 9 credits by interning 4 ½ days a week during the fall or spring term (6 credits in the summer). They earn 3 additional credits by taking one of the many academic courses offered by TWC. The students register directly through USF and pay USF tuition. Since these are USF credits, most student financial aid applies. In addition students will receive the Florida State Scholarship to help defray the program and housing fees of TWC.

For more information on The Washington Center visit their website: www.twc.edu.

USF University College

Web Address: www.uc.usf.edu

USF University College 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.

Distance Learning Initiatives

USF University College provides development and marketing services to USF colleges and departments wishing to establish courses, certificates, and degree programs in online or other distance learning formats. Distance learning provides access to the university learning experience by removing barriers of time and place. Courses are available in a variety of disciplines and offer alternatives in time, place, format, or delivery systems to extend educational opportunities throughout the region and beyond. A variety of technology options, such as the World Wide Web, videoconferencing, and other technologies, allow faculty and students to communicate at the same time or on a time-delayed basis at times that fit the student's personal schedule. Distance learning courses are included with regular departmental offerings in OASIS; contact the department offering the course for more information. For additional course development information, please call (813) 974-8513.

University College Student Services (USF4YOU)

University College 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/
Contact E-mail: askus4you@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: three letters of recommendation, a personal goal statement and resume (1-2 pages).

These documents should be sent directly to:

Bachelor of General Studies Program
Metro Initiatives/University College
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)
- 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 18-24 credits (core courses and electives) within selected concentrations:

- Aging Studies
- Behavioral Healthcare
- Business
- Environmental Policy and Management
- Information Studies: Information Architecture
- Leadership
- Public Administration
- Public Health
- Urban Studies
- Women’s Studies

All BGS students complete a capstone experience identified by the home department of each concentration. Each
department may develop specific capstone courses or prefer to enroll their students in a BGS capstone course developed by the faculty members on the BGS Advisory Committee.

Corporate College/Continuing Education (Non-Credit)

Corporate College/Continuing Education serves the non-credit market segment of University College by providing a range of continuing education programs and testing services to residents and employers in the Tampa Bay region.

- **Professional and Workforce Development (PWD)**
  Provides non-credit courses and certificate programs to help participants maintain proficiency, prepare for certification, transition to a new field of work or acquire skills to return to work.

- **Osher Lifelong Learning Institute (OLLI)**
  A learning community of older adults offering peer-led, non-credit programs in the arts, sciences and computer skills.

- **Testing Services**
  Administers paper and pencil, and computer based tests for Educational Testing Services (GRE, GMAT, TOEFL, etc.) College Level Examination Program (CLEP), as well as other professional certification programs.

- **Registration Services**
  Processes non-credit registrations and enrollments for the CE programs (PWD and OLLI) and other USF college departments. Provides continuing education unit (CEU) management for an additional fee.

For more information, please visit the website at: [www.conted.usf.edu](http://www.conted.usf.edu) or call (813) 974-2403.

The USF Library System

**Phone:** 813-974-2729  
**Web Address:** [www.lib.usf.edu](http://www.lib.usf.edu)  
**Contact Email:** [http://www.lib.usf.edu/help/#email](http://www.lib.usf.edu/help/#email)

There are three libraries on the USF Tampa Campus – the USF Tampa Library, Florida Mental Health Research Library, and the Shimberg Health Sciences Library. In addition, there are libraries on the USF St. Petersburg campus (Nelson Poynter Memorial Library), USF Polytechnic campus, and the joint-use library (Jane Bancroft Cook Library) on the New College of Florida campus for USF Sarasota-Manatee students and faculty.

**The Tampa Library Hours** are 24/5 (Sunday – Thursday) during regular fall and spring semesters, Fridays 7:30-6 p.m., Saturdays 10 a.m. to 6 p.m. and open on Sunday beginning at 12 p.m. During summer semesters the library opens Mondays through Thursdays 7:30 a.m. until 12 midnight with the same Friday and Saturday hours as regular semesters.

**Basic statistics about USF Libraries collections:**
- Books: print 1.2 million, E-books - 443,189
- E-journals – 52,223
- Databases - 806
- Images – 826,000

**Tampa Library Special Collections** - [http://www.lib.usf.edu/special-collections/](http://www.lib.usf.edu/special-collections/)

Located on the 4th floor, students will find access to a number of important local and global historical collections to incorporate into their research. Reading room hours are Monday-Friday: 9am – 6pm, Saturday-Sunday: Closed.


Digital Collections provide online access to many materials from Special Collections as well as collections digitized through partnerships with other libraries and repositories.

**Library Spaces:**

**Learning Commons**

The Learning Commons consist of the 1st and 2nd floors of the Tampa Library and brings together a collection of student research and learning support services in one location. Learning Commons services include librarian reference service (1st floor), tutoring and study skills support (2nd floor), writing center (1st floor), IT Help Desk (1st floor), and the Office of Undergraduate Research (2nd floor).

**Study Rooms**

There are 25 study rooms of various sizes within the Tampa Library building. Students may go to the Circulation Desk to check out rooms. Availability is on a first come, first served basis.
Quiet Study
The Tampa Library building has created zones designating levels of talking and quiet study. These are:
- Super quiet – 6th floor
- Quiet Study – 3rd, 4th, and 5th floors, and basement
- Low talking/group work – 2nd floor
- Talk It Up! – 1st floor

Services:
Getting Help with Research
Research help is available to students face to face at the reference desk on the 1st floor of the Tampa Library, through online chat, telephone, email and by making an appointment for a research consultation. Seek more information at Ask-A-Librarian at http://www.lib.usf.edu/help/.

Online Library Access
Students can use online resources from off-campus by logging in first to Blackboard, or by going through the Library home page. Look for the designation “You are logged in” in the upper left corner of the library’s home page (www.lib.usf.edu).

Using Computers and Printing in the Tampa Library
There are approximately 162 workstations on the first and second floor (Learning Commons) of the Tampa Library for student use. In addition, there are 55 laptops available for student checkout at the Circulation Desk. New enhancements to the free printing program on campus allow students to have an allotment of $2.50 per day to be used for printing around the campus and in the library on the 1st floor. Students can also increase this amount by putting Bull Bucks (https://usfweb3.usf.edu/bullbucks/) on their USF ID card.

Borrowing print materials
Undergraduates are able to borrow 50 items for 60 days with one renewal including 5 items from the media collection.

Borrowing from other libraries
Interlibrary loan and the statewide UBorrow program allow students to request materials outside of their home campus collections. Links to these free services are within the USF Libraries online catalog and databases. For more information go to http://www.lib.usf.edu/ill/.

Textbooks at the library
The Tampa Library places on reserve behind the Circulation Desk one to two copies of books for the largest lecture courses. In addition, the Tampa Library has developed (with support of Student Tech Fees) a Textbook Affordability website (http://tap.usf.edu/) to help students find textbooks affordably. For more information about library collections and services contact Ask-A-Librarian at http://www.lib.usf.edu/help/.

Online chat: http://www.lib.usf.edu/help/#chat

Public Media
WUSF Public Media is a non-commercial public service media organization that provides in-depth journalism, music, education and information to the community through broadcasting, online and community engagement. WUSF 89.7, WSMR 89.1, WUSF TV and wusf.org focus on issues of concern to citizens such as education, transportation, the environment, the economy and health.

WUSF 89.7 airs news and information and all night jazz and is an NPR member station. WUSF 89.7 is available on HD Radio and online. WUSF 89.7 is all classical music and can also be heard at WSMR 89.1 and 103.9FM. Visit our website, http://www.wusf.usf.edu/, for instructions on how to access the second audio stream. WUSF 89.7 reaches 280,000 listeners per week.

WUSF TV brings a broad perspective to world events and public affairs through Journal, a daily news broadcast from Berlin, Inside Washington and McLaughlin Group. WUSF TV broadcasts four channels of educational programming. These channels are available over the air, via direct broadcast satellites or from cable operators. WUSF 16.1 airs public television programming; WUSF 16.2 broadcasts WUSF Kids, and is the only broadcast channel in the region devoted to public television children’s program 24/7; WUSF 16.3 broadcasts WUSF Create, with how-to programs on cooking, gardening, sewing, travel programs and This Old House; and WUSF 16.4 is WUSF Knowledge with the Florida Knowledge Network and other educational programming. WUSF TV reaches more than 850,000 viewers per week.

IntellisMedia is a creative division of WUSF comprised of media, communications, engineering and production professionals providing customized communications, production and technology solutions to USF academic and
support services units as well as clients in the corporate, government, education and non-profit sectors.

The WUSF website, http://www.wusf.usf.edu/, is a resource for news and information with links to WUSF and WSMR streaming. WUSF produced programs, podcasts and blogs.

**WUSF Radio Reading Service** serves the blind visually impaired and those with reading disabilities by providing information to encourage independent living. It is a lifeline to those who rely on the 24-hour-a-day reading of newspapers, current magazines and health information programs. The WUSF Radio Reading Service has 15 dedicated volunteers who generously donate their time reading for the visually impaired.

WUSF works closely with the School of Mass Communications to provide students with practicum experience and internships in every department of the station. Students produce a daily newscast and documentaries that air on WUSF TV 16.1.

**Office of Research & Innovation**

**Location/Phone:** USF Research Park, 3702 Spectrum Blvd., Suite. 175, 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 oversees the administration of research contracts and grants, patents, trademarks, copyrights, federal and state research compliance regulations, USF’s own internal award programs, economic development initiatives, public-private partnerships, research park development, technology transfer and licensing, and research activities at affiliated hospitals and institutes.

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/). COE-RU offers a limited number of research assistantships sponsored by participating faculty and the Dean’s office.

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 growth in research that USF has experienced.

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.
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.

Honors Faculty
Dean: Stuart Silverman; Associate Dean: Georg Kleine; Director, Office of National Scholarships: Linda Lucas. (Instructors for Honors courses are recruited from among the University’s outstanding teacher-scholars.)

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.
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 essences 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. Additional information may be obtained from Robin R. Jones, Director, by calling (813) 974-8452 or emailing jones@cas.usf.edu. The office is located in NES 305.

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.” Although Cell Biology, Microbiology and Molecular Biology, Communication, Integrative Biology, and Psychology are not limited access programs, they do have restrictive admission requirements.

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
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 2.00. (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 2.00 in USF coursework. Note: In Anthropology, English and Mass Communications students must have a 2.50 major GPA in USF coursework; and the Integrative Biology major with a concentration in Marine Biology requires a 3.0 major GPA in USF coursework.

3. Complete the Foreign Language Entrance Requirement if entering USF fall semester, 1987 or later. Students pursuing a B.A. degree must complete the Foreign Language Exit Requirement.

4. Students enrolling in a college 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 (for more information, see section titled “Core Curriculum Requirements.”)

   - Core Curriculum Requirements of 36 hours credit:
     a. English Composition 6
     b. Mathematics and Quantitative Reasoning (Calculus is required) 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 2 semester hours.

7. ROTC courses are limited to 9 semester hours.

8. When double majoring, a maximum of 2 courses or 8 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 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.

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.
17. Students must satisfy CLAS (College Level Academic Skills Requirement). 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, Biomedical Physics, Chemistry, Classics, Communication, Economics, English, Environmental Policy, French, Geography, Geology, German, History, Humanities, International Studies, Italian, Linguistics, Mass Communications, Mathematics, Philosophy, Physics, Political Science, Psychology, Public Administration, Religious Studies, Russian, Sociology, Spanish, and Women's Studies.

Certain restrictions apply to students earning a minor: (a) students may not use courses in the major for the minor, unless approved by the department offering the minor; and (b) ISS majors may not earn a minor in any of the cognate areas incorporated in their contracts. 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; American Studies; Anthropology; Cell Biology, Microbiology, and Molecular Biology; Chemistry; Communication; Economics; English; Environmental Science and Policy; Geography; Geology; Government and International Affairs; History; Humanities; Integrative Biology; Interdisciplinary Social Sciences; Liberal Studies; Mass Communications; Mathematics; Philosophy; Physics; Psychology; Religious Studies; Sociology; Women's Studies, and World Languages. The College of Arts and Sciences offers 57 major fields of study as described in the following pages. In addition to the departmental majors, interdisciplinary majors are offered.

**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 (LIT)
  - Professional Writing, Rhetoric and Technical (CWT)
French (FRE)
  - French International Studies & Business Concentration (IFB)
Geography (GPY)
Geology (GLY)
German (GER)
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 Studies (WST)

BACHELOR OF SCIENCE (B.S.)

Biology:
  Biology (BIO)
    Cell and Molecular Biology (CAM)
    Environmental Biology Ecology and Biodiversity (ENB)
    Environmental Biology Environmental Microbiology (ENB)
    Integrative Animal Biology (IAB)
    Marine Biology (MRN)
    Health Sciences (HLS)
    Microbiology (MIC)
Chemistry:
  Chemistry (CHS)
  Biomedical Sciences (BMS)
  Medical Technology (MET)
  Interdisciplinary Natural Sciences (INS)
  Environmental Science and Policy (ESP)
Geology (GLS)
Information Studies (ITC)

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.

Special Programs

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 Robin Jones, NES 305 or at jones@cas.usf.edu, (813) 974-8452.
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:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>AFS 3153</td>
<td>African Literature Survey</td>
<td>3</td>
</tr>
<tr>
<td>AML 3604</td>
<td>African American Literature</td>
<td>3</td>
</tr>
<tr>
<td>AFA 4931</td>
<td>Selected Topics: Afro-Diasporic Literature and Political Movements</td>
<td>3</td>
</tr>
<tr>
<td>ENG 4013</td>
<td>Literary Criticism</td>
<td>3</td>
</tr>
</tbody>
</table>

Required Elective Courses (Select any two of the following):

<table>
<thead>
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<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>AFA 4931</td>
<td>Selected Topics: Internship</td>
<td>3</td>
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<tr>
<td>AML 4303</td>
<td>Zora Neale Hurston</td>
<td>3</td>
</tr>
<tr>
<td>AML 4624</td>
<td>Black Women Writers</td>
<td>3</td>
</tr>
<tr>
<td>WST 4410</td>
<td>Postcolonial Women Writers</td>
<td>3</td>
</tr>
</tbody>
</table>

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 2.5 GPA or higher in the program will be denied the certificate.
Courses credited toward the Asian Studies Certificate:

**Group A**

**Art:**
- ARH 4530 (4)
- ARH4557 (4)
- ARH 4547 (4)

**Humanities:**
- HUM 2271 (3)
- HUM 2273 (3)
- HUM 3271 (4)
- HUM 3273 (4)

**Languages:**
- CHI 1120 (4)
- CHI 1121 (4)
- CHI 2200 (4)
- CHI 4905 (1-5)
- CHI 4930 (1-5)
- JPN 1120 (4)
- JPN 1121 (4)
- JPN 2220 (3)
- JPN 2221 (3)
- JPN 4905 (1-5)
- JPN 4930 (1-5)

**Religion:**
- REL 3318 (3)
- REL 3335 (3)
- REL 3340 (3)
- REL 3330 (3)
- REL 4343 (4)
- REL 4333 (4)
- REL 4344 (4)

**Group B**

**Geography:**
- GEA 3703 (4)

**History:**
- ASH 2270 (3)
- HIS 2931 (2-4)*
- ASH 3404 (4)

**Int’l Studies:**
- ASN 3012 (3)
- ASN 3014 (3)
- INR 4900 (1-3)*
- INR 4910 (1-3)*
- INR 4931 (1-4)*

**Political Science:**
- CPO 4930 (3)*
- CPO 5934 (3)
- INR 5086 (3)

* with approval by the Advisor for the Certificate in Asian Studies

The advisor for the Certificate in Asian Studies is Rosa Ore; she may be contacted at rosaoe@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 Film Studies Certificate 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@cas.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:
- FRE 4392 African Images in Francophone Film
- GET 3522 Fantastic Films of Early German Cinema
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 2.50 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 Course:

- 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
  - REL 4936 Selected Topics: Religion and Food

Group II – Ecology & Sustainability Course:

- Students will take 3-4 credits chosen from the following list:
  - AMS 4804 Major Ideas in America: Ethics of Food Production
  - ANT 4403 Environmental Anthropology
  - SYA 4930 Topics in Sociology: Sustainable Consumption

Group III – Global Identities Course:

- 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
  - HUM 4930 Selected Topics in Humanities: Food and Theory
  - WST 4335 Women and Film

Certificate in India Studies

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 16-20 semester hours is required for the Certificate in India Studies. Of those 16-20 hours, 4 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: 4 credits
GEA 3194 Regional Geography – India 4

In addition to the above required core course, 4 electives (12-16 hours) must be taken—two each from Group A and two each from Group B.

Group A: History, Geography, Society, Politics: 6-8 credit hours
Courses that may be applied as electives to the India Studies Certificate are as follows:
- GEO 4930 Selected Topics: Urban-Rural Contrasts in Globalizing 4
- GEO 4930 Selected Topics: Gender and Development in India 4
- GEO 4930 Selected Topics: Environmental Issues in India 4
- HIS 3930 Special Topics: Asian History on Film 4
- HIS 4936 Pro-Seminar in History 4
- INR 4931 Selected Topics: South Asia 3

Group B: Language, Culture, Philosophy, and Religion: 6-8 credit hours
Courses that may be applied as electives to the India Studies Certificate are as follows:
- REL 2300 Introduction to World Religions 4
- REL 3014 Introduction to Major Religious Texts 3
- REL 3308 World Religions 3
- REL 3330 Religions of South Asia 3
- REL 3335 Gods and Goddesses of India 3
- REL 4333 Hindu Texts and Contexts 3

Group C: Study Abroad: 6-8 credit hours (Optional)
Students with Study Abroad experience in India may substitute one course each from Group A and Group B for 6-8 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.

Certificate in Italian Studies

The College of Arts and Sciences and the College of Visual and Performing Arts offer a 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 Society and Politics in the Italian Renaissance
- 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
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  
FRE 4905 Directed Study  
FRE 4930 Selected Topics  

GERMAN  
GER 3500 German Civilization  
GET 3100 German Literature in English  
GET 3290 Fantastic Films of Early German Cinema  
GEW 4100 Survey of German Literature I  
GEW 4101 Survey of German Literature II  
GEW 4900 Directed Study  
GEW 4930 Selected Topics  

ITALIAN  
ITW 4100 Survey of Italian Literature I  
ITW 4101 Survey of Italian Literature II  
ITW 4905 Directed Study  

SPANISH  
SPN 3440 Spanish for Business  
SPN 3441 Advanced Spanish for Business Writing  
SPN 3500 Spanish Civilization  
SPW 3030 Introduction to Hispanic Literature  
SPW 4100 Survey of Spanish Literature I  
SPW 4101 Survey of Spanish Literature II  
SPW 4900 Directed Study  
SPW 4930 Selected Topics  

G. Philosophy  
PHH 3420 History of Philosophy  
PHH 4440 Continental Philosophy  
PHM 4331 Modern Political Philosophy  
PHP 3786 Existentialism  
PHP 4410 Kant  
PHP 4740 The Rationalists  
PHP 4745 The Empiricists  

Courses not included in the above list may be included in the program if approved by the Coordinator and an Advisory Committee.  
NOTE: Courses which apply to the certificate may also count toward a student’s major.  

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 4
   EUH 3576 Soviet Union 4
   EUS 3022 Russia 3
B. One of the following courses:
   RUS 3500 Russian Civilization 3
   RUT 3110 Russian Classics in English 3
   RUT 3111 20th Century Russian Literature in English 3

III. Elective Courses
HIS 3930 Selected Topics* 4
HIS 4900 Directed Reading* 1-3
INR 3018 World Ideologies 3
INR 4900 Directed Readings* 1-3
INR 4910 Directed Research* 1-3
INR 3955 Overseas Study* 1-6
RUS 2221 Russian IV 4
RUS 3240 Conversation I 4
RUS 4241 Conversation II 4
RUS 2270 Overseas Study 1-6
RUS 3470 Overseas Study 1-6
RUS 4471 Advanced Overseas Study 1-6
*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.

1) Core Courses (9-10 credits)
   URS 3002 Introduction to Urban Studies 3
   And two of the following:
   ANT 4442 Urban Life and Culture 3
   ARC 4784 The City 3
   ECP 3613 Economics of the Urban Environment 3
   GEO 3602 Urban Geography 4
   GEO 4604 Topics in Urban Geography 4
   POS 3142 Introduction to Urban Politics and Government 3
   SYA 4930 Selected Topics* 1-3
   SYD 4410 Urban Sociology (3
   SYD 4411 Urban Life 3

Courses may have prerequisites within the discipline.
*Please see academic advisor for the appropriate selected topics course.

2) Methods Courses (select one of the following: 3-4 credits)
   AFA 4350 African American Community Research 3
   ANT 4285 Oral History 3
   ANT 4495 Methods in Cultural Research 3
   CCJ 3701 Research Methods in Criminal Justice I 3
3) Electives (select four from the following list or from the CORE COURSES not counted above: minimum of 12 credits)

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<th>Africana Studies</th>
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<td>AFA 4331 Social Institutions and the African-American Community 3</td>
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<td>AMH 3572 African American History since 1865 3</td>
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<td>AMS 3700 Racism in American Society 3</td>
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<td>AFA 4335 Black Women in America 3</td>
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<td>AFA 4931 Social and Cultural Issues in Black Urban Life 3</td>
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<td>ANT 4701 Applied Anthropology 3</td>
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<td>ANT 4930 Special Topics in Anthropology (when applicable) 3</td>
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<td>SPC 3710 Communication and Cultural Diversity 3</td>
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<td>CCJ 3610 Theories of Criminal Behavior 3</td>
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<td>CCJ 3621 Patterns of Criminal Behavior 3</td>
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<td>ECO 4504 Public Finance 3</td>
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<td>ECP 3201 Economics of Women and Work 3</td>
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<td>ECP 3203 Labor Economics 3</td>
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<td>ECP 3302 Environmental Economics 3</td>
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<td>GEO 4471 Political Geography 4</td>
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<td>GEO 4502 Economic Geography 4</td>
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<td>GEO 4700 Transportation Geography 4</td>
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<td>URP 4052 Urban and Regional Planning 4</td>
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<td>AMH 3500 American Labor History 4</td>
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<td>POS 2112 State &amp; Local Government and Politics 3</td>
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<td>POS 3182 Florida Politics and Government 3</td>
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<td>POS 5155 Issues of Urban Government and Politics 3</td>
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<td>PAD 3003 Introduction to Public Administration 3</td>
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<td>PAD 4144 Nonprofit Organizations and Public Policy 3</td>
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<td>PAD 4204 Public Financial Administration 3</td>
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<td>PAD 5333 Concepts &amp; Issues in Public Planning 3</td>
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<td>PAD 5807 Administration of Urban Affairs 3</td>
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<td>SYO 3120 Sociology of Families 3</td>
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<td>SYO 3530 Social Inequalities in a Global Society 3</td>
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Health Professions

The University of South Florida is an excellent location to prepare for a career in the health professions. The Veteran 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.

- Medical – for information regarding the USF Medical program, please visit: http://health.usf.edu/medicine/home.html.
- Veterinary Medicine
- Pharmacy – for information regarding the USF 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 (3,1)
- BSC 2011, 2011L Biology II: Diversity (3,1)

**Chemistry**
- CHM 2045, 2045L General Chemistry I (3,1)
- CHM 2046, 2046L General Chemistry II (3,1)
- CHM 2210, 2210L Organic Chemistry I (3,2)
- CHM 2211, 2211L Organic Chemistry II (3,2)

**Physics**
- PHY 2053, 2053L General Physics I (3,1)
- PHY 2054, 2054L General Physics II (3,1)
In addition to these requirements it is generally expected that preprofessional 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 3,1
- BSC 2011, 2011L Biology II: Diversity 3,1
- MCB 3020C General Microbiology 4

**Chemistry**
- CHM 2045, 2045L General Chemistry I 3,1
- CHM 2046, 2046L General Chemistry II 3,1
- CHM 2210, 2210L Organic Chemistry I 3,2
- CHM 2211, 2211L Organic Chemistry II 3,2
- BCH 3023 Introductory Biochemistry 3

**Mathematics**
- MAC 2241, MAC 2311, or MAC 2281 Calculus 4,4,4

Plus either the second semester of a calculus sequence or

- STA 2023 Introductory Statistics I 4

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)

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 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.

Requirements for the Major in Africana Studies

The major in Africana Studies consists of a minimum of 36 hours, which include five core courses (15 hours) and seven electives (21 hours).

**Major requirements for the B.A. Degree** (36 Credit Hours)

<table>
<thead>
<tr>
<th>Core Courses:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>AFA 2000 Introduction to the Black Experience in Africa and its Diaspora</td>
<td>3</td>
</tr>
<tr>
<td>AFH 3100 African History to 1850</td>
<td>3</td>
</tr>
<tr>
<td>AFH 3200 African History since 1850</td>
<td>3</td>
</tr>
<tr>
<td>AMH 3571 African-American History to 1865</td>
<td>3</td>
</tr>
<tr>
<td>AMH 3572 African-American History since 1865</td>
<td>3</td>
</tr>
</tbody>
</table>

Electives (21 Hours)

Students will take seven additional elective courses from the following list of courses:

- AFA 4313 Black English
- AFA 4335 Black Women in America
- AFA 4350 African American Community Research
- AFA 4931 Selected Topics in Africana Studies
- AMS 3700 Racism in American Society
- AML 3604 African American Literature
- AML 4303 Major Works: Zora Neale Hurston
- PHM 4120 Major Black Thinkers
- AFS 2250 Culture and Society in Africa

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

The minor in Africana Studies consists of a minimum of 18 hours, which include three core courses (9 hours) and three electives (9 hours).

**Core Courses:** (9 credit hours)

- AFA 2000 Introduction to the Black Experience in Africa and its Diaspora 3
- AFH 3100 African History to 1850 or AFH 3200 African History since 1850 3
- AMH 3571 African-American History to 1865 or AMH 3572 African-American History since 1865 3

**Elective Courses:** (9 credit hours)

Students will complete the minor requirements with three additional Africana Studies elective courses.
Africana Studies Faculty

• ANTHROPOLOGY (ANT) (CIP = 45.0201)

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/](http://anthropology.usf.edu/).

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. Students should complete two lower level, introductory courses (6 credit hours) in Anthropology prior to entering the university. If not taken at the community college, they must be completed before the degree is granted. Some courses required for the major may also meet General Education Requirements thereby transferring maximum hours to the university. A grade of “C” is the minimum acceptable grade. 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.

Requirements for the Major in Anthropology

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 2.50 GPA in all courses counted toward the major. ANT 2000, although suggested, is not a prerequisite to intermediate level courses. ANT 2000 may, however, be included in the 36 credit hour major requirement. Students who have not taken ANT 2000 must make up the missing hours with elective coursework. ANT 3101, ANT 2410, ANT 2511 and ANT 3610 are required as intermediate level training in the main subdivisions of the field, and ANT 4034 completes the specific requirements. Majors are required to complete a minimum of 18 hours of 4000-level elective coursework, including at least one course from each subfield. A minimum of three (3) of these 18 credits must be selected from a list of designated methods courses. Methods courses may also be counted toward the subdivision requirement.

Suggested Intro Core Course
- ANT 2000 Introduction to Anthropology 4

Required Core Courses
- ANT 2410 Cultural Anthropology 3
- ANT 2511 Biological Anthropology 3
- ANT 2511L Biological Anthropology Laboratory 1
- ANT 3101 Archaeology 3
- ANT 3610 Anthropological Linguistics 3
- ANT 4034 Theories of Culture 3

Area Electives
Archaeology
## COLLEGE OF ARTS AND SCIENCES

UNIVERSITY OF SOUTH FLORIDA 2012-2013 UNDERGRADUATE CATALOG

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>ANT 4142</td>
<td>Old World Archaeology</td>
<td>3</td>
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<tr>
<td>ANT 4143</td>
<td>European Archaeology</td>
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</tr>
<tr>
<td>ANT 4147</td>
<td>Environmental Archaeology</td>
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<tr>
<td>ANT 4153</td>
<td>North American Archaeology</td>
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<tr>
<td>ANT 4158</td>
<td>Florida Archaeology</td>
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<tr>
<td>ANT 4165</td>
<td>South American Archaeology</td>
<td>3</td>
</tr>
<tr>
<td>ANT 4163</td>
<td>Mesoamerican Archaeology</td>
<td>3</td>
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<tr>
<td>ANT 4172</td>
<td>Historical Archaeology</td>
<td>3</td>
</tr>
<tr>
<td>ANT 4180</td>
<td>Laboratory Methods in Archaeology</td>
<td>2-4</td>
</tr>
<tr>
<td>ANT 4181</td>
<td>Museum Methods</td>
<td>4</td>
</tr>
<tr>
<td>ANT 4183C</td>
<td>Archaeological Science</td>
<td>4</td>
</tr>
<tr>
<td>ANT 4012</td>
<td>Fantastic Archaeology</td>
<td>3</td>
</tr>
<tr>
<td>ANT 4285</td>
<td>Oral History</td>
<td>3</td>
</tr>
<tr>
<td>ANT 4302</td>
<td>Gender in Cross-Cultural Perspectives</td>
<td>3</td>
</tr>
<tr>
<td>ANT 4312</td>
<td>North American Indians</td>
<td>3</td>
</tr>
<tr>
<td>ANT 4316</td>
<td>Ethnic Diversity in the United States</td>
<td>3</td>
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<tr>
<td>ANT 4323</td>
<td>Mexico and Central America</td>
<td>3</td>
</tr>
<tr>
<td>ANT 4340</td>
<td>The Caribbean</td>
<td>3</td>
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<tr>
<td>ANT 4390</td>
<td>Visual Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>ANT 4401</td>
<td>Exploring Cross-Cultural Diversity</td>
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<tr>
<td>ANT 4403</td>
<td>Environmental Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>ANT 4432</td>
<td>The Individual and Culture</td>
<td>3</td>
</tr>
<tr>
<td>ANT 4442</td>
<td>Urban Life and Culture</td>
<td>3</td>
</tr>
<tr>
<td>ANT 4462</td>
<td>Health, Illness, and Culture</td>
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<tr>
<td>ANT 4495</td>
<td>Methods in Cultural Research</td>
<td>3</td>
</tr>
<tr>
<td>ANT 4620</td>
<td>Language and Culture</td>
<td>3</td>
</tr>
<tr>
<td>ANT 4701</td>
<td>Applied Anthropology</td>
<td>3</td>
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<tr>
<td>ANT 4750</td>
<td>Language and Social Interaction</td>
<td>3</td>
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<tr>
<td>ANT 4935</td>
<td>Rethinking Anthropology</td>
<td>3</td>
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<tr>
<td>URS 3002</td>
<td>Introduction to Urban Studies</td>
<td>3</td>
</tr>
<tr>
<td>ANT 4180</td>
<td>Lab Methods in Archaeology</td>
<td>2-4</td>
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<tr>
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<td>Methods in Cultural Research</td>
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<tr>
<td>ANT 4520C</td>
<td>Forensic Anthropology</td>
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</tr>
<tr>
<td>ANT 4824</td>
<td>Archaeological Field Methods</td>
<td>4-12</td>
</tr>
</tbody>
</table>

### Biological Anthropology

- ANT 4520C Forensic Anthropology 4
- ANT 4586 Prehistoric Human Evolution 3
- ANT 4516 Human Variation 3

### Cultural Anthropology

- ANT 4014 Anthropology of American Culture 3
- ANT 4231 Folklore 3
- ANT 4241 Anthropology of Religion 3
- ANT 4285 Oral History 3
- ANT 4302 Gender in Cross-Cultural Perspectives 3
- ALT 4312 North American Indians 3
- ANT 4316 Ethnic Diversity in the United States 3
- ANT 4323 Mexico and Central America 3
- ANT 4340 The Caribbean 3
- ANT 4390 Visual Anthropology 3
- ANT 4401 Exploring Cross-Cultural Diversity 3
- ANT 4403 Environmental Anthropology 3
- ANT 4432 The Individual and Culture 3
- ANT 4442 Urban Life and Culture 3
- ANT 4462 Health, Illness, and Culture 3
- ANT 4495 Methods in Cultural Research 3
- ANT 4620 Language and Culture 3
- ANT 4701 Applied Anthropology 3
- ANT 4750 Language and Social Interaction 3
- ANT 4935 Rethinking Anthropology 3
- URS 3002 Introduction to Urban Studies 3

### Methods

- ANT 4180 Lab Methods in Archaeology 2-4
- ANT 4181 Museum Methods 4
- ANT 4183C Archaeological Science 4
- ANT 4285 Oral History 3
- ANT 4390 Visual Anthropology 3
- ANT 4495 Methods in Cultural Research 3
- ANT 4520C Forensic Anthropology 4
- ANT 4824 Archaeological Field Methods 4-12

### Special Topics

- ANT 4930 Special Topics 3

Depending upon the specific topic, this 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, Department Honors Program, summer field schools, job opportunities, graduate education and professional careers in anthropology.
Requirements for the Minor in Anthropology

The minor in Anthropology consists of a minimum of 18 credit hours with a "C" average (2.0), distributed among two areas. 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 advisor to create the most beneficial set of courses. ANT 2000, although suggested, is not a prerequisite to subsequent courses, although it may be included in the 18 credits required for the minor.

1. Intermediate-level core courses (6-9 credit hours)
   - ANT 2000 Introduction to Anthropology
   - ANT 2410 Cultural Anthropology
   - ANT 2511 Biological Anthropology
   - ANT 3101 Archaeology
   - ANT 3610 Anthropological Linguistics

2. 4000-level elective courses (9-12 credit hours)
   As described above in the listing of elective courses in archaeology, physical 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 (minimal 3.25 GPA overall, 3.5 GPA for USF anthropology course work), a 2-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 a 3.25 overall and a 3.5 in the major, completion of ANT 4932 (4) (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

Degrees in Biology are offered by the Department of Cell Biology, Microbiology and Molecular Biology (CMMB) and by the Department of Integrative Biology (IB). The two departments offer the following concentrations in the Biology Bachelor of Science degree: Cell & Molecular Biology (CMMB); Environmental Biology (IB), Integrative Animal Biology (IB), and Marine Biology (IB). All incoming students are required to choose one of the concentrations listed below when declaring a major in Biology. The degree in Biology is preparatory for careers in such areas as teaching, agriculture, medicine, dentistry, conservation, and biotechnology, or for post-baccalaureate study in the various life sciences.

Students enrolled in the Bachelor of Science Concentration in Cell & Molecular Biology are eligible to apply for an Accelerated BS/MS degree in Biology. This program allows B.S. majors to take graduate courses for the elective part of the Cell and Molecular Concentration and apply them to a non-thesis M.S. degree in Biology with a Concentration in Cell and Molecular Biology. Successful students can earn the M.S. degree in two additional semesters beyond the completion of the B.S. degree. More information can be found at the CMMB departmental web site (http://biology.usf.edu/cmmb/undergraduate). The accelerated BS/MS program is intended for students entering professions that do not need extensive laboratory experience but require more specialized knowledge of Cell and Molecular Biology.

The Bachelor of Science in Microbiology (MIC), offered by the CMMB, provides students with the broad range of courses necessary to qualify for certification by the National Registry of Microbiologists, American Society of Microbiology, employment in microbiology and related fields. This degree is preparatory for careers in teaching, medicine, biotechnology and post-baccalaureate study in related life sciences.

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 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 or 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 "C" (2.00) grade or better in order to meet the next course in the sequence’s prerequisites.

Additionally, all Biology or Microbiology majors entering USF for the first time, in Fall 2009 or later, who subsequently earn 3 D and/or F grades in USF coursework for their major and/or supporting coursework will be required to change their major to a major more appropriate to their goals and academic performance. That major may not be one 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 coursework for their major and/or supporting coursework for the major by the beginning of Fall 2009, will also be allowed 3 D and/or F grades in subsequent terms before being 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. Any continuing USF students who enter USF prior to Fall 2009 and who have earned greater than or equal to 1 D or F grade in USF coursework for their major and/or supporting coursework for the major by the beginning of Fall 2009, will be allowed only 2 more D and/or F grades in subsequent semesters before being 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.

Grade Forgiveness will NOT apply to the mandated requirement of changing major.

• BIOLOGY (BIO) (CIP = 26.0101)

REQUIREMENTS FOR THE BIOLOGY B.S. MAJOR WITH A CONCENTRATION IN CELL AND MOLECULAR BIOLOGY

REQUIREMENTS FOR THE BIOLOGY B.S. MAJOR (BIO)

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 1010/1010L Introduction to Biology I-Cellular Processes (with lab)
Acceptable substitutes: PCB X010, PCB X011, PCB X021, PCB X131, BSC X040, BSC 2012
BSC 1011/1011L Introduction to Biology II-Diversity (with lab)
Acceptable substitutes: ZOO X010, BOT X010, BSC X041, BOT X013
CHM 1045/1045L General Chemistry I (with lab)
CHM 1046/1046L General Chemistry II (with lab)
CHM 2210/2210L Organic Chemistry I (with lab)
Acceptable substitutes: PHY 3043/3043L, PHY 3048/3048L, PHY 3049/3049L, or equivalent
CHM 2211/2211L Organic Chemistry II (with lab)
Acceptable substitutes: PHY 3053/3053L, PHY 3048/3048L, PHY 3049/3049L, or equivalent
MAC X311 Calculus I
Acceptable substitutes: MAC 2233, MAC 2253, MAC X281
MAC X312 Calculus II
Acceptable substitutes: STA 2122, 2014, 2023, 2034, 2321 or equivalent; MAC 2234, 2254, 3282

This is a non-limited access program with the above courses recommended.

REQUIRED COURSES FOR THE BIOLOGY MAJOR - CONCENTRATION IN CELL BIOLOGY AND MOLECULAR BIOLOGY (CAM)

Department of Cell Biology, Microbiology, and Molecular Biology AND Department of Integrative Biology

Minimum: 40 credit hours
1. Required Courses [29 hours]:
### a. BSC 2010 Biology I Cellular Processes
   - 3
   - BSC 2010L Biology I Cellular Processes Laboratory
   - 1
   - BSC 2011 Biology II Diversity
   - 3
   - BSC 2011L Biology II Diversity Laboratory
   - 1

### b. PCB 3063 General Genetics
   - 3
   - PCB 3063L General Genetics Laboratory
   - 1
   - PCB 3023 Cell Biology
   - 3
   - PCB 3023L Cell Biology Laboratory
   - 1
   - PCB 3043 Principles of Ecology
   - 3
   - PCB 3043L Principles of Ecology Laboratory
   - 1
   - MCB 3410 Cell Metabolism
   - 3
   - PCB 4024 Molecular Biology of Cell
   - 3
   - PCB 4026 Molecular Biology of Gene
   - 3

### 2. Elective courses [minimum 11 hrs.]
   - PCB 3712 General Physiology
   - 3
   - PCB 4843 Principles of Neuroscience
   - 3
   - ZOO 4753 Human Histology and Histopathology
   - 4
   - ZOO 4695 Developmental Biology
   - 4
   - MCB 3020C General Microbiology
   - 4
   - BOT 4434C Mycology
   - 3
   - PCB 4683 Human Genetics
   - 3
   - BSC 5420 Genetic Engineering
   - 3
   - BSC 4458 Bioinformatics
   - 3
   - PCB 5616 Molecular Phylogenetics
   - 3
   - PCB 4522 Experimental Genetics
   - 3
   - BSC 4910 Undergraduate Research
   - 1-4
   - BSC 4933 Selected Topics
   - 1-4
   - BSC 4905 Independent Study
   - 1

A minimum of 20 credits of Biology courses must be taken in residency at the USF Tampa campus and be applicable to the major.

### 3. Supporting Courses in the Natural Sciences [minimum 34 credits]
   - a. CHM 2045 General Chemistry I
   - 3
   - CHM 2045L General Chemistry I Laboratory
   - 1
   - CHM 2046 General Chemistry II
   - 3
   - CHM 2046L General Chemistry II Laboratory
   - 1

   - b. CHM 2210 Organic Chemistry I
   - 3
   - CHM 2210L Organic Chemistry I Laboratory
   - 2
   - CHM 2211 Organic Chemistry II
   - 3
   - CHM 2211L Organic Chemistry II Laboratory
   - 2

   - c. MAC 2241 Life Sciences Calculus I
   - 4
   - and
   - MAC 2242 Life Sciences Calculus II
   - 4
   - or
   - MAC 2281 Engineering Calculus I
   - 4
   - and
   - MAC 2282 Engineering Calculus II
   - 4
   - or
   - MAC 2311 Calculus I
   - 4
   - and
   - MAC 2312 Calculus II
   - 4
   - STA 2023 Introductory Statistics I may be substituted for any Calculus II
   - 4

   - d. PHY 2048 General Physics I
   - 3
   - PHY 2048L General Physics I Laboratory
   - 1
   - PHY 2049 General Physics II
   - 3
   - PHY 2049L General Physics II Laboratory
   - 1
   - or
   - PHY 2053 General Physics I
   - 3
   - PHY 2053L General Physics I Laboratory
   - 1
   - PHY 2054 General Physics II
   - 3
   - PHY 2054L General Physics II Laboratory
   - 1

4. Meet all College and University requirements.
Minimum Grade for Majors
A student must receive a "C-" grade or better in all Department of Integrative Biology or 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.

REQUIREMENTS FOR THE BIOLOGY B.S. MAJOR WITH A CONCENTRATION IN ENVIRONMENTAL BIOLOGY (ENB)
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 1010/1010L Introduction to Biology I - Cellular Processes (with lab)
  Acceptable substitutes: PCB X010, PCB X011, PCB X021, PCB X131, BSC X040, BSC 2012
- BSC 1011/1011L Introduction to Biology II - Diversity (with lab)
  Acceptable substitutes: ZOO X010, BOT X010, BSC X041, BOT X013
- CHM 1045/1045L General Chemistry I (with lab)
- CHM 1046/1046L General Chemistry II (with lab)
- CHM 2210/2210L Organic Chemistry I (with lab)
  Acceptable substitutes: PHY 3043/3043L, PHY 3048/3048L, PHY 3049/3049L, or equivalent
- CHM 2211/2211L Organic Chemistry II (with lab)
  Acceptable substitutes: PHY 3053/3053L, PHY 3048/3048L, PHY 3049/3049L, or equivalent
- MAC X311 Calculus I
  Acceptable substitutes: MAC 2233, MAC 2253, MAC X281
- MAC X312 Calculus II
  Acceptable substitutes: STA 2122, 2014, 2023, 2034, 2321 or equivalent; MAC 2234, 2254, 3282

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.

1. Required Courses for the Biology Major – Concentration in Environmental Biology – minimum 40 credit hours

   Required Courses – ECOLOGY AND BIODIVERSITY TRACK [25-26 hours]:
   a. BSC 2010  Biology I Cellular Processes  3
      BSC 2010L Biology I Cellular Processes Laboratory  1
      BSC 2011  Biology II Diversity  3
      BSC 2011L Biology II Diversity Laboratory  1
   b. PCB 3043  Principles of Ecology  3
      PCB 3043L Principles of Ecology Laboratory  1
      PCB 3063  General Genetics  3
      PCB 3063L General Genetics Laboratory  1
      PCB 4674  Organic Evolution  3
      BSC 4933  Conservation Biology  3
   c. One of the following
      BSC 4933  Plant Ecology  3
      or
      BSC 4933  Physiological Ecology  3
      or
      PCB 5307  Limnology  3
      or
      ZOO 5555C  Marine Animal Ecology  4

   Required Courses – ENVIRONMENTAL MICROBIOLOGY TRACK [31-33 hours]:
   a. BSC 2010  Biology I Cellular Processes  3
      BSC 2010L Biology I Cellular Processes Laboratory  1
      BSC 2011  Biology II Diversity  3
      BSC 2011L Biology II Diversity Laboratory  1
   b. PCB 3043  Principles of Ecology  3
      PCB 3043L Principles of Ecology Laboratory  1
      PCB 3063  General Genetics  3
      PCB 3063L General Genetics Laboratory  1
      MCB 3020C  General Microbiology  4
MCB 4404 Microbial Physiology and Genetics 4
MCB 4404L Microbial Physiology and Genetics Laboratory 1
c. Two of the following
   BSC 5444 Genomics or MCB 5655 Applied and Environmental Microbiology or 3
   BSC 4933 Microbiology of Waterborne Pathogens or BSC 4933 Ecology of Infectious Diseases or BSC 4933 Parasitology

2. Elective Courses – minimum 7-15 credit hours: Any Tampa Campus – IB Biology or CMMB Biology Department course (course code prefix of BOT, BSC, ENY, MCB, PCB, or ZOO) with the exception of courses labeled as "not for major credit," and BCH 3023 Introduction to Biochemistry (3) and BCH 3023L Introduction to Biochemistry Laboratory (2). At least eight (8) or these hours must be at the 4000 level or higher. A maximum of four (4) hours of Undergraduate Research (BSC 4910 or MCB 4910) may be applied. A minimum of 20 hours of Biology courses taken at USF Tampa 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 3
      CHM 2045L General Chemistry I Laboratory 1
      CHM 2046 General Chemistry II 3
      CHM 2046L General Chemistry II Laboratory 1
   b. CHM 2210 Organic Chemistry I 3
      CHM 2210L Organic Chemistry I Laboratory 2
      CHM 2211 Organic Chemistry II 3
      CHM 2211L Organic Chemistry II Laboratory 2
   c. MAC 2241 Life Sciences Calculus I 4
      and
      MAC 2242 Life Sciences Calculus II 4
      or
      MAC 2281 Engineering Calculus I 4
      and
      MAC 2282 Engineering Calculus II 4
      or
      MAC 2311 Calculus I 4
      and
      MAC 2312 Calculus II 4
      STA 2023 Introductory Statistics I may be substituted for any Calculus II 4
d. PHY 2048 General Physics I 3
   e. and
      PHY 2048L General Physics I Laboratory 1
      and
      PHY 2049 General Physics II 3
      and
      PHY 2049L General Physics II Laboratory 1
      or
      PHY 2053 General Physics I 3
      and
      PHY 2053L General Physics I Laboratory 1
      and
      PHY 2054 General Physics II 3
      and
      PHY 2054L General Physics II Laboratory 1

4. Meet all College and University requirements

Minimum Grade for Majors
A student must receive a “C-” grade or better in all Department of Integrative Biology or 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.

REQUIREMENTS FOR THE BIOLOGY B.S. MAJOR WITH A CONCENTRATION IN INTEGRATIVE ANIMAL BIOLOGY (IAB)
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 1010/1010L Introduction to Biology I-Cellular Processes (with lab)
  Acceptable substitutes: PCB X010, PCB X011, PCB X021, PCB X131, BSC X040, BSC 2012
BSC 1011/1011L Introduction to Biology II-Diversity (with lab)
  Acceptable substitutes: ZOO X010, BOT X010, BSC X041, BOT X013
CHM 1045/1045L General Chemistry I (with lab)
CHM 1046/1046L General Chemistry II (with lab)
CHM 2210/2210L Organic Chemistry I (with lab)
  Acceptable substitutes: PHY 3043/3043L, PHY 3048/3048L, PHY 3049/3049L, or equivalent
CHM 2211/2211L Organic Chemistry II (with lab)
  Acceptable substitutes: PHY 3053/3053L, PHY 3048/3048L, PHY 3049/3049L, or equivalent
MAC X311 Calculus I
  Acceptable substitutes: MAC 2233, MAC 2253, MAC X281
MAC X312 Calculus II
  Acceptable substitutes: STA 2122, 2014, 2023, 2034, 2321 or equivalent; MAC 2234, 2254, 3282

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.

1. Required Courses for the Biology Major – Concentration in Integrative Animal Biology – minimum 40 credit hours.

  Required Courses [24 hours]:
  a. BSC 2010 Biology I Cellular Processes 3
     BSC 2010L Biology I Cellular Processes Laboratory 1
     BSC 2011 Biology II Diversity 3
     BSC 2011L Biology II Diversity Laboratory 1
  b. PCB 3043 Principles of Ecology 3
     PCB 3043L Principles of Ecology Laboratory 1
     PCB 3063 General Genetics 3
     PCB 3063L General Genetics Laboratory 1
  c. One of the following pairs of structure and function courses, with laboratories:
     BSC 2093CHuman Anatomy and Physiology I 4
     and
     BSC 2094CHuman Anatomy and Physiology II 4
     or
     ZOO 2303 Vertebrate Zoology 3
     and
     BSC 2933 Vertebrate Zoology Laboratory 1
     and
     PCB 3712 General Physiology 3
     and
     PCB 3713L General Physiology Laboratory 1
     or
     ZOO 3713C Comparative Vertebrate Anatomy 4
     and either:
     PCB 3712 General Physiology 3
     and
     PCB 3713L General Physiology Laboratory 1
     or
     PCB 4723 Animal Physiology 3
     and
     PCB 4723L Animal Physiology Laboratory 1
     or
     ZOO 3205C Advanced Invertebrate Zoology 4
     and
     PCB 3712 General Physiology 3
     and
     PCB 3713L General Physiology Laboratory 1
     or
     ENY 3004C Introduction to Entomology 4
     and
     PCB 3712 General Physiology 3
2. **Elective Courses** – minimum 16 credit hours: Any Tampa Campus IB Biology or CMMB Biology Department course (course code prefix of BOT, BSC, ENY, MCB, PCB, or ZOO) with the exception of courses labeled as "not for major credit," and BCH 3023 Introduction to Biochemistry (3) and BCH 3023L Introduction to Biochemistry Laboratory (2). At least eight (8) or these hours must be at the 400 level or higher. A maximum of four (4) hours of Undergraduate Research (BSC 4910 or MCB 4910) may be applied. A minimum of 20 hours of Biology courses must be taken at USF Tampa 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 3
      CHM 2045L General Chemistry I Laboratory 1
      CHM 2046 General Chemistry II 3
      CHM 2046L General Chemistry II Laboratory 1
   b. CHM 2210 Organic Chemistry I 3
      CHM 2210L Organic Chemistry I Laboratory 2
      CHM 2211 Organic Chemistry II 3
      CHM 2211L Organic Chemistry II Laboratory 2
   c. MAC 2241 Life Sciences Calculus I 4
      and
      MAC 2242 Life Sciences Calculus II 4
      or
      MAC 2281 Engineering Calculus I 4
      and
      MAC 2282 Engineering Calculus II 4
      or
      MAC 2311 Calculus I 4
      and
      MAC 2312 Calculus II 4
      STA 2023 Introductory Statistics I may be substituted for any Calculus II 4
   d. PHY 2048 General Physics I 3
      and
      PHY 2048L General Physics I Laboratory 1
      and
      PHY 2049 General Physics II 3
      and
      PHY 2049L General Physics II Laboratory (1) 1
      or
      PHY 2053 General Physics I 3
      and
      PHY 2053L General Physics I Laboratory 1
      and
      PHY 2054 General Physics II 3
      and
      PHY 2054L General Physics II Laboratory 1

4. Meet all College and University requirements

**Minimum Grade for Majors**
A student must receive a “C-” grade or better in all Department of Integrative Biology or 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.

**REQUIREMENTS FOR THE BIOLOGY B.S. MAJOR WITH A CONCENTRATION IN MARINE BIOLOGY (MRN)**

**Requirements for Entrance into the Biology Degree with a Concentration in Marine Biology**
Student applies to Marine Biology Program after meeting all entrance requirements of BIO major. In addition, a student must have a major GPA of at least 3.0 at the time of application and maintain a major GPA of at least 3.0 throughout the program.

**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 1010/1010L Introduction to Biology I - Cellular Processes (with lab)
   Acceptable substitutes: PCB X010, PCB X011, PCB X021, PCB X131, BSC X040, BSC 2012
BSC 1011/1011L Introduction to Biology II - Diversity (with lab)
   Acceptable substitutes: ZOO X010, BOT X010, BSC X041, BOT X013

CHM 1045/1045L General Chemistry I (with lab)
   Acceptable substitutes: PHY 3043/3043L, PHY 3048/3048L, PHY 3049/3049L, or equivalent

CHM 1046/1046L General Chemistry II (with lab)
   Acceptable substitutes: PHY 3048/3048L, PHY 3049/3049L, or equivalent

CHM 2210/2210L Organic Chemistry I (with lab)
   Acceptable substitutes: PHY 3043/3043L, PHY 3048/3048L, PHY 3049/3049L, or equivalent

CHM 2211/2211L Organic Chemistry II (with lab)
   Acceptable substitutes: PHY 3053/3053L, PHY 3048/3048L, PHY 3049/3049L, or equivalent

MAC X311 Calculus I
   Acceptable substitutes: MAC 2233, MAC 2253, MAC X281

MAC X312 Calculus II
   Acceptable substitutes: STA 2122, 2014, 2023, 2034, 2321 or equivalent; MAC 2234, 2254, 3282

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.

1. Required Courses for the Biology Major — Marine Biology Concentration — minimum 40 credit hours.

   **Required Courses** [25 hours]
   
   a. **BSC 2010 Biology I - Cellular Processes** 3
      **BSC 2010L Biology I Cellular Processes Laboratory** 1
      **BSC 2011 Biology II Diversity** 3
      **BSC 2011L Biology II Diversity Laboratory** 1
   
   b. **PCB 3043 Principles of Ecology** 3
      **PCB 3043L Principles of Ecology Laboratory** 1
      **PCB 3063 General Genetics** 3
      **PCB 3063L General Genetics Laboratory** 1
      **BSC 3312 Marine Biology** 3
      **BSC 4937 Seminar in Marine Biology** 2
   
   c. One of the following
      **BOT 3373C Vascular Plants Form and Function** 4
      or
      **MCB 3020C General Microbiology** 4
      or
      **ZOO 2303 Vertebrate Zoology (3)** 3
      and
      **ZOO 2933 Vertebrate Zoology Laboratory** 1
      or
      **ZOO 3713C Comparative Vertebrate Anatomy** 4
      or
      **ZOO 3205C Advanced Invertebrate Zoology** 4

2. **Elective Courses** — minimum 15 credit hours: Choose from courses listed in 1c, above, and/or from the following list.

   **BOT 5185C** Marine Botany
   **BSC 4313C** Advanced Marine Biology
   **GIS 5049** GIS for Non-Majors
   **GLY 4734** Beaches and Coastal Environments
   **MCB 4404/4404L** Microbial Physiology and Genetics (with laboratory)
   **MCB 5655** Applied and Environmental Biology
   **OCB 6050** Biological Oceanography
   **OCC 6050** Chemical Oceanography
   **OCE 4930** Selected Topics in Marine Science*
   **OCE 6934** Selected Topics in Oceanography*
   **OCG 6051** Geological Oceanography
   **OCP 6050** Physical Oceanography
   **PCB 4674** Organic Evolution
   **PCB 3712/3713L** General Physiology (with laboratory)
   **PCB 4723/4723L** Animal Physiology (with laboratory)
   **ZOO 4513** Animal Behavior
   **ZOO 5456/5456L** Ichthyology (with laboratory)
ZOO 5555C  Marine Animal Ecology
*Please see academic advisor for appropriate selected topics courses.
A maximum of six (6) hours may be taken in courses from other departments/colleges in the list above. At least eight (8) or these hours must be at the 4000 level or higher. A maximum of four (4) hours of Undergraduate Research (BSC 4910 or MCB 4910) may be applied. A minimum of 20 hours of Biology courses must be taken at USF Tampa 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 3
      CHM 2045L General Chemistry I Laboratory 1
      CHM 2046  General Chemistry II 3
      CHM 2046L General Chemistry II Laboratory 1
   b. CHM 2210  Organic Chemistry I 3
      CHM 2210L Organic Chemistry I Laboratory 2
      CHM 2211  Organic Chemistry II 3
      CHM 2211L Organic Chemistry II Laboratory 2
   c. MAC 2241  Life Sciences Calculus I 4
      and
      MAC 2242  Life Sciences Calculus II 4
      or
      MAC 2281  Engineering Calculus I 4
      and
      MAC 2282  Engineering Calculus II 4
      or
      MAC 2311  Calculus I 4
      and
      MAC 2312  Calculus II 4
      STA 2023  Introductory Statistics I may be substituted for any Calculus II 4
   d. PHY 2048  General Physics I 3
      and
      PHY 2048L General Physics I Laboratory 1
      and
      PHY 2049  General Physics II 3
      and
      PHY 2049L General Physics II Laboratory 1
      or
      PHY 2053  General Physics I 3
      and
      PHY 2053L General Physics I Laboratory 1
      and
      PHY 2054  General Physics II 3
      and
      PHY 2054L General Physics II Laboratory 1

4. **Meet all College and University requirements**
**Minimum Grade for Majors**
A student must receive a “C-” grade or better in all Department of Integrative Biology or 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.

• **BS in HEALTH SCIENCE (HLS) (CIP = 51.0000, Track 1/7)**
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 Master’s degree programs in Health Management, 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 state mandated prerequisites are included in the core requirements for the degree.

Unless stated otherwise, a grade of “C-” is the minimum acceptable grade.

BSC xxxxC or BSC x007/x007L or BSC x005/x005L or BSC x010/x010L
MAC x105
PSY x012
STA xxx or STA x023 or STA x014
DEP x053 or DEP x004 or DEP x000 or CLP x140
APK x0105C or BSC x085/x085L or BSC x093 and BSC x094
ENC x210 or ENC x254

Requirements for the B.S. Degree in Health Science

Core Requirements (State Mandated Prerequisites are included):

BSC 1020 The Biology of Humans or BSC 1005 Principles of Biology for Non-Majors 3

BSC 2085 and BSC 2085L Anatomy AND Physiology I for Health Professions 3, 1
or
BSC 2093 Human Anatomy and Physiology I AND BSC 2094 Human A&P II 4

MAC 1105 College Algebra 3
STA 2023 Introductory Statistics I 4
IDS 2931 Selected Topics: Introduction to Health Professions 3
ENC 2210 Technical Writing 3
DEP 2004 The Life Cycle 3
PHI 3633 Biomedical Ethics or PHI 3636 Professional Ethics 3
CLT 3040 Scientific and Medical Terminology 3
PSY 2012 Introduction to Psychological Science 3
COM 2000 Introduction to Communication 3

or
ACG 2021 Principles of Financial Accounting 3
or
ANT 2511 Biological Anthropology 3

or
GEY 2000 Introduction to Gerontology 3

or
SYG 2000 Introduction to Sociology 3

Unless stated otherwise, a grade of “C-” is the minimum acceptable grade. At least 20 of the 30 upper level credit hours in the concentrations must be taken in residency at the USF Tampa campus.

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

ANT 4520C Forensic Anthropology 3
ANT 4462 Health Illness and Culture 3
BMS 4406 Principles of Human Pharmacology 3
BSC 4933 Selected Topics in Biology: Microbiology for Health Sciences 3
BSC 3022 Biology of Aging 3
GEY 3601 Physical Change and Aging 3
HSC 3541 Human Structure & Function 3
HSC 4504 Foundation of Public Health Immunology 3
HSC 4554 Survey of Human Disease 3
HSC 4580 Foundation of Food Safety 3
HSC 4624 Foundation of Global Health 3
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<tr>
<td>LIS 4930</td>
<td>Selected Topics in Information Studies: LIS Health Informatics</td>
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<tr>
<td>PHC 3302</td>
<td>Introduction to Environmental &amp; Occupational Health</td>
<td>3</td>
</tr>
<tr>
<td>PHC 4030</td>
<td>Introduction to Epidemiology</td>
<td>3</td>
</tr>
<tr>
<td>PHC 4406</td>
<td>Pop Culture, Vices, and Epidemiology</td>
<td>3</td>
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<td>PHC 4542</td>
<td>Stress, Health &amp; College Life</td>
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<tr>
<td>ZOO 4512</td>
<td>Sociobiology</td>
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**Communication Sciences & Disorders Cluster**

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<tr>
<td>SPA 3030</td>
<td>Introduction to Hearing Science</td>
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<td>SPA 3101</td>
<td>Anatomy and Physiology of the Speech &amp; Hearing Mechanism</td>
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<tr>
<td>SPA 3002</td>
<td>Introduction to Disorders of Speech and Language</td>
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<tr>
<td>SPA 3004</td>
<td>Introduction to Language Development and Disorders</td>
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<td>SPA 3470</td>
<td>Culture and Diversity in CSD</td>
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<tr>
<td>SPA 4104</td>
<td>Neuroanatomy of Speech, Language &amp; Hearing</td>
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**B. Social and Behavioral Health Sciences Concentration**

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<td>Abnormal Psychology</td>
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<td>COM 4022</td>
<td>Health Communication</td>
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<td>COM 4020</td>
<td>Communicating Illness, Grief and Loss</td>
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<td>COM 4021</td>
<td>Family Communication and End of Life</td>
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<tr>
<td>COM 4702</td>
<td>Communications, Language and Mental Illness</td>
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<tr>
<td>LIS 4930</td>
<td>Selected Topics in Information Studies: Health Information Studies</td>
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<tr>
<td>HSC 4172</td>
<td>Women's Health: A Public Health Perspective</td>
<td>3</td>
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<tr>
<td>HSC 4211</td>
<td>Health Behavior and Society</td>
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<td>HSC 4579</td>
<td>Foundation of Maternal &amp; Child Health</td>
<td>3</td>
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<td>HSC 4631</td>
<td>Critical Issues in Public Health</td>
<td>3</td>
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<td>HSC 4933</td>
<td>Special Topics in Public Health: US Healthcare Systems</td>
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<tr>
<td>PHI 4930</td>
<td>Selected Topics: Social Issues in Biomedical Ethics</td>
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<tr>
<td>PHC 4406</td>
<td>Pop Culture, Vices, Epidemiology</td>
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<td>SOP 4330</td>
<td>Social Psychology of HIV/AIDS</td>
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<td>SOW3102</td>
<td>Human Behavior and the Social Environment II</td>
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<td>SOW3210</td>
<td>The American Social Welfare System</td>
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<tr>
<td>SPC 4305</td>
<td>Communicating Emotions</td>
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<td>SPC 4930</td>
<td>Selected Topics: Global and Cultural Health Comm.</td>
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<td>SPC 4321</td>
<td>Communication and Aging</td>
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<td>SYO 4400</td>
<td>Medical Sociology</td>
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<td>WST 4320</td>
<td>The Politics of Women's Health</td>
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**Mental Health Cluster**

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<td>MHS 3411</td>
<td>Multidisciplinary Behavioral Healthcare Services</td>
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<td>MHS 4002</td>
<td>Behavioral Health Systems Delivery</td>
<td>3</td>
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<tr>
<td>MHS 4408</td>
<td>Exemplary Practices in Behavioral HC Treatment</td>
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<tr>
<td>MHS 4022</td>
<td>Adult Psychopathology in the Community</td>
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<tr>
<td>or</td>
<td>MHS 4490 Behavioral Healthcare Issues for Children</td>
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<tr>
<td>or</td>
<td>MHS 4703 Legal, Ethical and Professional Issues in BHC</td>
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**Substance Abuse Cluster**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>MHS 3411</td>
<td>Multidisciplinary Behavioral Healthcare Services</td>
<td>3</td>
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<tr>
<td>MHS 4408</td>
<td>Exemplary Practices in Behavioral Healthcare Treatment</td>
<td>3</td>
</tr>
<tr>
<td>MHS 4452</td>
<td>Co-Occurring Disorders</td>
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<tr>
<td>MHS 4703</td>
<td>Legal, Ethical and Professional Issues in BHC</td>
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<tr>
<td>PSB 3444</td>
<td>Drugs and Behavior</td>
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**C. Aging Health Studies Concentration**

<table>
<thead>
<tr>
<th>Course Code</th>
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<tbody>
<tr>
<td>BSC 3022</td>
<td>Biology of Aging</td>
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</tr>
<tr>
<td>GEY 4322</td>
<td>Gerontological Case Management</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td>MHS 4931 Selected Topics: Case Management in Community Mental Health</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td>GEY 4327 Understanding Policy and Practice in Long Term Care</td>
<td>3</td>
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<tr>
<td>or</td>
<td>GEY 3601 Physical Change and Aging</td>
<td>3</td>
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<tr>
<td>or</td>
<td>GEY 4360 Gerontological Counseling</td>
<td>3</td>
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<tr>
<td>or</td>
<td>GEY 4608 Alzheimer’s Disease Management</td>
<td>3</td>
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<td>or</td>
<td>GEY 4628 Race, Ethnicity, and Aging</td>
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<tr>
<td>or</td>
<td>GEY 4641 Death and Dying</td>
<td>3</td>
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<tr>
<td>or</td>
<td>GEY 4935 Special Topics in Gerontology: Program and Service Evaluation</td>
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### D. Health Management Concentration

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<tr>
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<tr>
<td>ACG 2071</td>
<td>Principles of Managerial Accounting</td>
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<tr>
<td>GEY 4635</td>
<td>Business Management in an Aging Society</td>
<td>3</td>
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<tr>
<td>PHC 4101</td>
<td>Introduction to Public Health</td>
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<tr>
<td>HSC 4211</td>
<td>Health, Behavior &amp; Society</td>
<td>3</td>
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<tr>
<td>HSC 4624</td>
<td>Foundation of Global Health</td>
<td>3</td>
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<tr>
<td>HSC 4631</td>
<td>Critical Issues in Public Health</td>
<td>3</td>
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<tr>
<td>HSC 4630</td>
<td>Understanding US Health Care</td>
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<tr>
<td>HSC 4933</td>
<td>Special Topics in Public Health: US Healthcare Systems</td>
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<tr>
<td>MAN 3025</td>
<td>Principles of Management</td>
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<tr>
<td>PAD 3003</td>
<td>Introduction to Public Administration</td>
<td>3</td>
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<tr>
<td>PAD 4204</td>
<td>Public Financial Administration</td>
<td>3</td>
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<tr>
<td>PHC 4931</td>
<td>Health Care Ethics</td>
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<td>PHI 3636</td>
<td>Professional Ethics</td>
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<td>PUP 4002</td>
<td>Public Policy</td>
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<td>PUP 5607</td>
<td>Public Policy and Health Care</td>
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<td>RMI 3011</td>
<td>Principles of Insurance</td>
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<td>SYO 4400</td>
<td>Medical Sociology</td>
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### E. Health Information Technology Concentration

<table>
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<tr>
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<tr>
<td>LIS 3353</td>
<td>IT Concepts for Information Professionals</td>
<td>3</td>
</tr>
<tr>
<td>LIS 3783</td>
<td>Information Architecture</td>
<td>3</td>
</tr>
<tr>
<td>LIS 4414</td>
<td>Information Policy and Ethics</td>
<td>3</td>
</tr>
<tr>
<td>LIS 4930</td>
<td>Introduction to Health Informatics</td>
<td>3</td>
</tr>
<tr>
<td>LIS 4930</td>
<td>ST in Information Studies: Health Information Management Systems</td>
<td>3</td>
</tr>
<tr>
<td>LIS 4930</td>
<td>ST in Information Studies: Health Information Technologies</td>
<td>3</td>
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<tr>
<td>LIS 4930</td>
<td>ST in Information Studies: Health Information Sources and Services</td>
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<tr>
<td>LIS 4482</td>
<td>Networks and Communication</td>
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<tr>
<td>PAD 4712</td>
<td>Managing Information Resources in the Public Sector</td>
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### Requirements for the Microbiology B.S. Major (MIC) (CIP = 26.0503)

**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 Introduction to Biology I-Cellular Processes (with lab)**
  - Acceptable substitutes: PCB X010, PCB X011, PCB X021, PCB X131, BSC X040, BSC 2012
- **BSC X011/X011L Introduction to Biology II-Diversity (with lab)**
  - Acceptable substitutes: ZOO X010, BOT X010, BSC X041, BOT X013
- **CHM X045/X045L General Chemistry I (with lab)**
- **CHM X046/X046L General Chemistry II (with lab)**
- **CHM X210/X210L Organic Chemistry I (with lab)**
  - Acceptable substitutes: PHY 3043/3043L, PHY 3048/3048L, PHY 3049/3049L, or equivalent
- **CHM X211/X211L Organic Chemistry II (with lab)**
  - Acceptable substitutes: PHY 3053/3053L, PHY 3048/3048L, PHY 3049/3049L, or equivalent
- **MAC X311 Calculus I**
  - Acceptable substitutes: MAC 2233, MAC 2253, MAC

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.

**Required Courses for the Microbiology Major**

1. Department of Cell Biology, Microbiology, and Molecular Biology Courses—minimum 42 credit hours
a. Foundational courses
BSC 2010 Biology I Cellular Processes 3
BSC 2010L Biology I Cellular Processes Laboratory 1
BSC 2011 Biology II Diversity 3
BSC 2011L Biology II Diversity Laboratory 1

b. Core courses
PCB 3023 Cell Biology 3
PCB 3023L Cell Biology Laboratory 1
PCB 3063 General Genetics 3
MCB 3410 Cell Metabolism 3
MCB 3020C General Microbiology 4

c. Advanced courses
i. Complete all of the following:
   MCB 4115C Determinative Bacteriology 5
   MCB 4320 Molecular Microbiology 3

ii. Complete Twelve (12) hours from the following list:
   BSC 4905 Independent Study* 1
   BSC 4933 Selected Topics in Biology* 1-4
   BSC 5931 Selected Topics in Biology* 1-4
   BOT 4434C Mycology 3
   MCB 4503 Virology 3
   MCB 4313 Industrial Microbiology 3
   MCB 4905 Microbiology Undergraduate Research 1-4
   MCB 4934 Seminar in Microbiology 1
   MCB 5206 Public Health and Pathogenic Microbiology 3
   MCB 5655 Applied and Environmental Biology 3
   MCB 5815 Medical Mycology 3
   PCB 4234 Principles of Immunology 3
   BCH 3023 Introductory Biochemistry 3
   BCH 3023L Basic Biochemistry Laboratory 2
   MCB 4404 Microbial Physiology and Genetics 4
   MCB 4404L Microbial Physiology and Genetics Laboratory 1

*Please see an Academic Advisor for appropriate selected topics courses.

iii. A maximum of four (4) credit hours of Undergraduate Research (MCB 4910) may be applied.

iv. A minimum of 20 credits of Biology courses must be taken in residency at the USF Tampa campus and be applicable to the major.

2. Supporting Courses in the Natural Sciences—minimum 34 credit hours
a. CHM 2045 General Chemistry I 3
   CHM 2045L General Chemistry I Laboratory 1
   CHM 2046 General Chemistry II 3
   CHM 2046L General Chemistry II Laboratory 1

b. CHM 2210 Organic Chemistry I 3
   CHM 2210L Organic Chemistry I Laboratory 2
   CHM 2211 Organic Chemistry II 3
   CHM 2211L Organic Chemistry II Laboratory 2

c. MAC 2241 Life Sciences Calculus I and
   MAC 2242 Life Sciences Calculus II 4
   or
   MAC 2281 Engineering Calculus I and
   MAC 2282 Engineering Calculus II 4
   or
   MAC 2311 Calculus I and
   MAC 2312 Calculus II 4
   STA 2023 Introductory Statistics I may be substituted any Calculus II 4

d. PHY 2048 General Physics I 3
   PHY 2048L General Physics I Laboratory 1
   PHY 2049 General Physics II 3
   PHY 2049L General Physics II Laboratory 1
   or
   PHY 2053 General Physics I 3
   PHY 2053L General Physics I Laboratory 1
 PHY 2054  General Physics II  3  
PHY 2054L  General Physics II Laboratory  1  
3. Meet all College and University requirements.

Requirements for the Minor in Microbiology

A minor in Microbiology consists of 26 credit hours which include:

**Required Courses:**

- BSC 2010  Biology I Cellular Processes  3
- BSC 2010L  Biology I Cellular Processes Laboratory  1
- PCB 3023  Cell Biology  3
- PCB 3023L  Cell Biology Laboratory  1
- PCB 3063  General Genetics  3
- MCB 3410  Cell Metabolism or BCH 3023 Biochemistry  3
- MCB 3020C  General Microbiology  4
- MCB 4115C  Determinative Bacteriology  5
- MCB 4320  Molecular Microbiology  3

A "C-" is the minimum acceptable grade for courses in the minor. A minimum 2.00 average in the 26 credits is required for obtaining this degree.

Cell Biology, Microbiology and Molecular Biology Faculty


Integrative Biology Faculty


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, bio medical research and clinical practice, environmental activities, materials science, law, business and other professions. The Bachelor of Science is particularly 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 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 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 INS degree. Twelve credit hours of major-applicable upper-level natural science courses must be completed at USF for the BMS 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/junior 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 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 will be instituting a new procedure to provide students with the best opportunity to progress toward their degree requirements. Beginning Fall 2009, the following D and/or F grade rules will 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 3 D and/or F grades in USF coursework for their major and/or supporting coursework for the major not including lab only courses (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 coursework for their major and/or supporting coursework for the major not including lab only courses (i.e. Math, Biology, Chemistry and Physics) by the beginning of Fall 2009, will also be allowed 3 D and/or F grades in subsequent terms before being 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 > 1 D or F grade in USF coursework for their major and/or supporting coursework for the major not including lab only courses (i.e. Math, Biology, Chemistry and Physics) by the beginning of Fall 2009, will be allowed only 2 more D and/or F grades in subsequent terms before being 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.

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.

Advisors in the College of Arts and Sciences Undergraduate Studies Office, BEH 201 (974-6957), will be available to assist students in the selection of a new major within the College.

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.
CHEMISTRY (CHS/CHM) (CIP = 40.0501)

BA in Chemistry (CHM)

The B.A. degree in Chemistry provides a course of study for students whose careers will require a thorough understanding of chemistry required for a variety of professional activities such as in health related professions, science teaching, business, law and other areas. Inherent in this program is a high degree of flexibility which permits tailoring a course of study to the student’s own educational objectives. 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 I 3
CHM 2045L General Chemistry I Lab 1
CHM 2046 General Chemistry II 3
CHM 2046L General Chemistry II Lab 1
CHM 2210 Organic Chemistry I 3
CHM 2210L Organic Chemistry I Lab 2
CHM 2211 Organic Chemistry II 3
CHM 2211L Organic Chemistry II Lab 2
CHM 3120C Elementary Analytical Chemistry I 4
CHM 3610 Intermediate Inorganic Chemistry I 3
CHM 3610L Intermediate Inorganic Chemistry I Lab 1
CHM 4410 Physical Chemistry I 4
CHM 4413 Biophysical Chemistry 3

Required Chemistry Electives - 6 credit hours

Suggested courses: BCH 3023, BCH 3023L, BCH 4034, CHM 4300, CHS 4300, CHM 4060, CHM 4070, CHM 4130C, CHM 4131C, CHM 4411, CHM 4410L, CHM 4611, CHM 4970, CHM 4932*, CHS 4301L.

*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 - 14-16 credit hours
MAC 2311 (4) 3
MAC 2312 (4) 4
PHY 2053 (3) 3
PHY 2053L (1) 1
PHY 2054 (3) 1
PHY 2054L (1) 1

Required natural science or engineering electives - 8 credit hours

BA in Chemistry, emphasis in Biochemistry (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 3
CHM 2045L  General Chemistry I Lab 1
CHM 2046  General Chemistry II 3
CHM 2046L  General Chemistry II Lab 1
CHM 2210  Organic Chemistry I 3
CHM 2210L  Organic Chemistry I Lab 2
CHM 2211  Organic Chemistry II 3
CHM 2211L  Organic Chemistry II Lab 2
CHM 3120C  Elementary Analytical Chemistry I 4
BCH 3023  Introductory Biochemistry 3
BCH 3023L  Basic Biochemistry Lab 2
BCH 4034  Advanced Biochemistry 3

Required Chemistry Electives - 9 credit hours - Minimum of 9 hours selected from the following:
CHM 3610  Intermediate Inorganic Chemistry I* 3
CHM 3610L  Intermediate Inorganic Chemistry I Lab* 1
CHM 4060  Use of the Chemical Literature 1
CHM 4300  Biomolecules I 3
CHM 4070  Historical Perspectives in Chemistry 3
CHM 4410  Physical Chemistry I* 4
CHM 4410L  Physical Chemistry Lab* 1
CHM 4413  Biophysical Chemistry 3
CHM 4411  Physical Chemistry II 4
CHM 4932  Selected Topics in Chemistry** 3

*Students anticipating graduate study are advised to select these courses.
**Spectroscopy and Medicinal Chemistry are the only Selected Topics course acceptable for the Biochemistry track of the Chemistry B.A. degree.

Required Supporting Courses - 22 - 24 credit hours
MAC 2311 (4)  or  MAC 2281 (4)
MAC 2312 (4)  or  MAC 2282 (4)
PHY 2053 (3)  or  PHY 2048 (3)
PHY 2053L (1)  or  PHY 2049L (1)
PHY 2054 (3)  or  PHY 2049 (1)
PHY 2054L (1)  or  PHY 2049L (1)
BSC 2010 (3)  PCB 3023 (3)
BSC 2010L (1)  PCB 3023L (1)

Other suggested electives important for advanced studies in biochemistry: PCB 3063, PCB 5235, PCB 5525, STA 2023, MCB 3020, MCB 4502, PCB 4253, PCB 5845, EVR 2001.

BA 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 3
CHM 2045L  General Chemistry I Lab 1
CHM 2046  General Chemistry II 3
CHM 2046L  General Chemistry II Lab 1
CHM 2210  Organic Chemistry I 3
CHM 2210L  Organic Chemistry I Lab 2
CHM 2211  Organic Chemistry II 3
CHM 2211L  Organic Chemistry II Lab 2
CHM 3120C  Elementary Analytical Chemistry I 4
BCH 3023  Introductory Biochemistry 3
CHS 4300  Fundamentals of Clinical Chem. 3
CHS 4301L  Fundamentals of Clinical Chem. Lab 2

Required Chemistry Electives - 9 credit hours
Minimum of 9 hours selected from the following:
**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. This degree is applicable for the student who begins a chemical vocation immediately upon graduation as well as the one who pursues advanced study in chemistry or related areas. 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

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<th>Course Title</th>
<th>Credits</th>
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<td>CHM 2045</td>
<td>General Chemistry I</td>
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<td>CHM 2045L</td>
<td>General Chemistry I Lab</td>
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<td>Organic Chemistry I</td>
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<td>CHM 2211</td>
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<td>Organic Chemistry II Lab</td>
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<td>BCH 3023</td>
<td>Introductory Biochemistry</td>
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<td>CHM 3120C</td>
<td>Elementary Analytical Chemistry I</td>
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<tr>
<td>CHM 3610</td>
<td>Intermediate Inorganic Chemistry I</td>
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<td>CHM 3610L</td>
<td>Intermediate Inorganic Chemistry I Lab</td>
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<td>CHM 4060</td>
<td>Use of the Chemical Literature</td>
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<tr>
<td>CHM 4130C</td>
<td>Methods of Instrumental Analysis</td>
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<td>CHM 4131C</td>
<td>Methods of Chemical Investigation</td>
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<td>CHM 4410</td>
<td>Physical Chemistry I</td>
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<tr>
<td>CHM 4410L</td>
<td>Physical Chemistry Laboratory</td>
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<tr>
<td>CHM 4411</td>
<td>Physical Chemistry II</td>
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<tr>
<td>CHM 4611</td>
<td>Advanced Inorganic Chemistry</td>
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## Required Supporting Courses - 20-23 credit hours

- MAC 2311 (4)
- MAC 2312 (4) or MAC 2281 (4)
- MAC 2313 (4) or MAC 2282 (4)
- PHY 2048 (3) or PHY 2049 (3)
- PHY 2048L (1) and PHY 2049L (1)

### Required natural science or engineering electives - 3-6 hours

1. 3000 level course (PHY 3101, MAP 4302 suggested)

### Other suggested chemistry electives: CHM 4970, BCH 3023L, CHM 4070, CHM 4413, CHM 4932*.

*Content varies each semester.

## Minor in Chemistry

Minimum of 24 total hours. 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 3
- CHM 2045L General Chemistry I Lab 1
- CHM 2046 General Chemistry II 3
- CHM 2046L General Chemistry II Lab 1
- CHM 2210 Organic Chemistry I 3
- CHM 2210L Organic Chemistry I Lab 2
- CHM 4060 Use of Chemical Literature 1

### 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.

**NOTE:** In all laboratory classes the lecture is PR/CR.

- BCH 3023 Introductory Biochemistry 3
- BCH 3023L Basic Biochemistry Lab 2
- CHM 2211 Organic Chemistry II 3
- CHM 3120C Elementary Analytical Chemistry 4
- CHM 3610 Intermediate Inorganic Chemistry 3
- CHM 3610L Intermediate Inorganic Chem. Lab 1
- CHM 4300 Biomolecules 3
- CHM 4410 Physical Chemistry I 4
- CHM 4410L Physical Chemistry Laboratory 1
- CHM 4411 Physical Chemistry II 4
- CHM 4413 Biophysical Chemistry 3
- CHM 4932 Selected Topics in Chemistry* 1-3
- CHS 4300 Fundamentals of Clinical Chemistry 3

*Note: CHM 4932 content varies each semester. Note: CHM 4932, Peer Leading cannot be used as a required chemistry elective in the minor.

### BIOMEDICAL SCIENCES (BMS) (CIP = 26.0102)

The Biomedical Sciences degree serves as a gateway into many 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 your 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 8
and
CHM X045 & CHM X045L General Chemistry I & Lab 4
CHM X046 & CHM X046L General Chemistry II & Lab 4
CHM X210 & CHM X210L Organic Chemistry I & Lab 4
CHM X211 & CHM X211L Organic Chemistry II & Lab 4
and
PHY X053 & X053L General Physics I & Lab 4
or
BSC X093 Human Anatomy & Physiology I 4
and
PHY X054 & X054L General Physics II & Lab 4
or
BSC X094 Human Anatomy & Physiology II 4
and
MAC X241 Life Sciences Calculus or MAC X311 Calculus I 4
and
MAC X242 Life Sciences Calculus II or MAC X312 Calculus II or STA X023 Introductory Statistics I or Equivalent

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 3
BSC 2010L Biology I Lab 1
BSC 2011 Biology II - Diversity 3
BSC 2011L Biology II Lab 1
Chemistry:
CHM 2045 General Chemistry I 3
CHM 2045L General Chemistry I Lab 1
CHM 2046 General Chemistry II 3
CHM 2046L General Chemistry II Lab 1
CHM 2210 Organic Chemistry I 3
CHM 2210L Organic Chemistry I Lab 2
CHM 2211 Organic Chemistry II 3
CHM 2211L Organic Chemistry II Lab 2
Required Supporting Courses:
Mathematics:*
MAC 2241 Life Sciences Calculus I 4
MAC 2242 Life Sciences Calculus II or STA 2023 Introductory Statistics 4
*MAC 2311 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 3
PHY 2053L General Physics I Lab 1
PHY 2054 General Physics II 3
PHY 2054L General Physics II Lab 1
*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 3
MCB 3020C (4) 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:
- 9 credits minimum of Biology and Chemistry Coursework from the lists below, with no fewer than 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: 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 3
- MCB 4115C Determinative Bacteriology* 5
- MCB 4404 Microbial Physiology and Genetics 4
- MCB 4404L Microbial Physiology and Genetics Lab 1
- MCB 4503 Virology 3
- MCB 5206 Public Health & Pathogenic Microbiology 3
- MCB 5815 Medical Mycology 3
- MCB 3410 Cell Metabolism 3
- PCB 3023 Cell Biology 3
- PCB 3023L Cell Biology Lab 1
- PCB 3063 General Genetics 3
- PCB 3063L Genetics Lab 1
- PCB 3712 General Physiology 3
- PCB 3713L General Physiology Lab 1
- PCB 4234 Principles of Immunology 3
- PCB 4522C Experimental Genetics 3
- PCB 4843 Principles of Neuroscience 3
- ZOO 3713C Comparative Vertebrate Anatomy* 4
- ZOO 4753C Histology* 4

*Combined course - satisfies lab requirement

**Chemistry:**
- BCH 3023L Biochemistry Lab 2
- BCH 4034 Advanced Biochemistry 3
- CHM 3120C Elementary Analytical Chemistry 4
- CHM 3610 Intermediate Inorganic Chemistry 3
- CHM 3610L Intermediate Inorganic Chemistry Lab 1
- CHM 4410 Physical Chemistry I 4
- CHM 4410L Physical Chemistry Lab 1
- CHM 4411 Physical Chemistry II 4
- CHM 4413 Biophysical Chemistry 3
- CHM 4300 Biomolecules I 3
- CHM 4932 Selected Topics in Chemistry* 1-3
- CHS 4300 Fundamentals of Clinical Chemistry 3
- CHS 4301L Clinical Chemistry Laboratory 2

**Other:**
- HSC 4504 Foundations of Public Health Immunology* 3
- PHZ 4702 Applications of Physics to Biology & Medicine I 4
- PHZ 4703 Applications of Physics to Biology & Medicine II 4

* cannot use both HSC 4504 & PCB 4234
*Selected Topics in Chemistry, Content varies each semester. Note: CHM 4932, Peer Leading cannot be used as a required chemistry elective in the major.

**INTERDISCIPLINARY NATURAL SCIENCES (INS) (CIP = 30.0101)**

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).

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) 8

Calculus
(MAC 2241, MAC 2242 or MAC 2311, MAC 2312 or MAC 2281 and MAC 2282) 8

General Chemistry
(CHM 2045, CHM 2045L, CHM 2046, CHM 2046L) 8

General Physics
(PHY 2053, PHY 2053L, PHY 2054, PHY 2054L or PHY 2048, PHY 2048L, PHY 2049, PHY 2049L) 8

Introduction to Physical Geology and History of the Earth and Life
(GLY 2010, GLY 2000L, GLY 2100, GLY 2100L) 8

Requirements for the Major in Interdisciplinary Natural Sciences

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 40 hours:

Calculus I and II
(MAC 2241, 2242 or MAC 2311, 2312 or MAC 2281 and MAC 2282) 8

STA 2023 could be substituted for Calculus II

Biology I and II
(BSC 2010, 2010L and BSC 2011, 2011L) 8

General Chemistry I and II
(CHM 2045, 2045L and CHM 2046, 2046L) 8

General Physics
(PHY 2053, PHY 2053L, PHY 2054, PHY 2054L or PHY 2048, PHY 2048L, PHY 2049, PHY 2049L) 8

Geology I and II
(GLY 2010, 2000L and GLY 2100, 2100L) 8

TIER 2
At least 8 hours of structured, upper division (3000 level or higher) courses in three of the five natural sciences areas, totaling 24 hours. 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.

Residency
At least 12 of the 24 hours at Tier 2 must be taken at USF.

• MEDICAL TECHNOLOGY (MET) (CIP = 51.1005)

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 may need to select an alternate degree. Generally, hospitals require a minimum GPA of 2.50, and our students admitted to clinical programs in recent years have had a mean GPA of 3.00 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
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.


2) Human Anatomy and Physiology I with lab (e.g. BSC 1085/1085L, BSC 1085C, BSC 1093, BSC 2093C, BSC 2085/2085L, BSC 1011C, BSC 2011, PCB 4703, PCB 3703, PCB 3702, PCB 3702.3-4 (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, 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 2211/2210L, CHM 3211/3211L, CHM 3210/3210L, CHM 3210/3211L, CHM 3211C)

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:

- General Biology I with lab (BSC 2010,2010L) 4
- Human Anatomy and Physiology I (with lab where available) (BSC 2093C or BSC 1085,1085L)
- General Biology II with lab (BSC 2011,2011L) 4
- General Microbiology with lab (MCB 3020C) 4
- General Chemistry I with lab (CHM 2045,2045L) 4
- General Chemistry II with lab (CHM 2046,2046L) 4
- Organic Chemistry I with lab (CHM 2210,2210L) 4.5
- Organic Chemistry II with lab (CHM 2211,2211L) 4.5
- Statistics (STA 2023) 3-4

In addition to the Common Prerequisites listed above, the following courses are required for the degree at USF:

- College Algebra (MAC 1105 or MAC 1147) 3-4
- Cell Biology with lab (PCB 3023, 3023L) 4
- Immunology (PCB 4234 or equivalent) 3
- Determinative Bacteriology with lab (MCB 4115C) 5
- Biochemistry (BCH 3023) 3

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
Administrator: R. Larsen; Courtesy Professors: W. Winston (Tampa General Hospital), D. Tripolino (Bayfront Medical Center), M. Songer (St. Vincent’s Medical Center).

- COMMUNICATION (SPE) (CIP = 23.1304)

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
A major in Communication requires a minimum of 36 credit hours from departmental offerings. A final grade of at least “C-minus” is required for a departmental course to count toward a Communication major. Courses may not be taken S/U where a grade option exists.

Communication is a restrictive major. To be admitted to the major, students must fulfill these three criteria:
- Complete at least 30 hours of college level work
- Have an overall grade point average in all college courses of 2.5 or above
- Complete the SPC 2608 prerequisite or equivalent public speaking course.

Please be aware of the immunization, foreign language, and continuous enrollment policies of the university.

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.

I. Prerequisites (3 hours)
This course is a prerequisite for declaring the communication major:
SPC 2608  Public Speaking

II. Required Courses (12 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 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 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 4021, COM 4022, COM 4702, SPC 3212, SPC 4305, SPC 4321, SPC 4431

Culture and Media (SMD)
- COM 3014, COM3051, COM 3052, COM 3413, COM 4016, COM 4021, COM 4030, COM 4050, COM 4104, COM4414, COM4931, 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 4714

Performance Studies (SPS)
- COM 3014, COM 3413, COM 4016, COM 4030, COM 4104, ORI 3950, ORI 4019, ORI 4120, ORI4150, 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, COM4030, 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 4714

IV. Departmental Electives (6) 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

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
The other 12 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)
  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
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
  ECO X023 Economic Principles: Microeconomics
  or
  ECO XXXX and ECO XXXX

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 I
  QMB 3200 Business and Economics Statistics II
  Economics electives numbered 3000 or higher
  ECO 4935 Special Topic: Exit Requirement in Economics

Notes:
MAC 2233 Business Calculus or MAC 2311 Calculus 1 (or the equivalent) must be taken as a prerequisite for ECO 3101 and ECO 3203.
ECP 3703, Managerial Economics (formerly ECO 3100), may be substituted for ECO 3101. Students may not take both for credit.
ECO 1000 (if taken before both ECO 2013 and ECO 2023) may be substituted for a maximum of 3 hours of upper level elective credit.
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.
No more than 3 hours credit can be applied toward a major from ECO 4905 and/or ECO 4914.
At least 12 hours of upper level credit must be taken in residence at USF.
Economics majors working at the regional campuses may not be able to fulfill all economics course requirements at those campuses.
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

All students, regardless of college, can earn a minor in Economics by satisfactorily completing 18 hours in Economics including:

- ECO 2013 Economic Principles: Macroeconomics 3
- ECO 2023 Economic Principles: Microeconomics 3
- Economics electives numbered 3000 or higher (may include QMB 3200) 12
- ECO 1000, if taken before both ECO 2013 and ECO 2023, 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 coursework 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 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’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

The program in English provides three areas of specialization (divided into three degree-options):

**Literary Studies** - 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.

**Creative Writing** - 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) the ability to critique student manuscripts and offer constructive feedback within a workshop setting.

**Professional Writing, Rhetoric and Technology** - 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 will produce graduates who can think critically about communication, contexts, and technology as well as compose technologically-mediated documents and products using a variety of tools.

The English Education major is described under the section for the College of Education. Major requirements for English majors are listed below. A grade of below C will not be counted toward fulfilling the major requirements. Students may not use more than one Directed Study toward meeting the major requirements. Transfer students must earn at least 15 hours in the major at USF. A 2.50 GPA in the major is required for graduation.

**Specialization Area I: Literary Studies (LIT)**

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.

Requirements for the Major – 36 hours
## I. Required Courses (2 courses/6 hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 3014</td>
<td>Introduction to Literary Methods</td>
</tr>
<tr>
<td>ENG 4013</td>
<td>Literary Criticism</td>
</tr>
</tbody>
</table>

## II. Historical Distribution Requirements (1 course from each of the following groups) (5 courses/15 hours)

### A. Medieval / Renaissance

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENL3015</td>
<td>British Literature to 1616</td>
</tr>
<tr>
<td>ENL3331</td>
<td>Early Shakespeare</td>
</tr>
<tr>
<td>ENL3332</td>
<td>Late Shakespeare</td>
</tr>
<tr>
<td>ENL4311</td>
<td>Chaucer</td>
</tr>
<tr>
<td>ENL4338</td>
<td>Advanced Studies in Shakespeare</td>
</tr>
</tbody>
</table>

### B. 17th/18th Century British

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENL3230</td>
<td>British Literature 1616-1780</td>
</tr>
<tr>
<td>ENL4341</td>
<td>Milton</td>
</tr>
<tr>
<td>ENL3016</td>
<td>Studies in 17th and 18th Century British Literature</td>
</tr>
</tbody>
</table>

### C. 19th Century British

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENL3251</td>
<td>British Literature 1780-1900</td>
</tr>
<tr>
<td>ENL4122</td>
<td>Nineteenth-Century British Novel</td>
</tr>
<tr>
<td>ENL3017</td>
<td>Studies in Nineteenth-Century British Literature</td>
</tr>
</tbody>
</table>

### D. American before 1900

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>AML 3031</td>
<td>American Literature from the Beginnings to 1860</td>
</tr>
<tr>
<td>AML 3032</td>
<td>American Literature from 1860 to 1912</td>
</tr>
<tr>
<td>AML 4261</td>
<td>Literature of the South</td>
</tr>
</tbody>
</table>

### E. 20th Century American or British

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>AML 3051</td>
<td>American Literature from 1912 to 1945</td>
</tr>
<tr>
<td>AML 4121</td>
<td>Twentieth-Century American Novel</td>
</tr>
<tr>
<td>AML 4261</td>
<td>Literature of the South</td>
</tr>
<tr>
<td>ENL3026</td>
<td>Studies in 20th Century Literature</td>
</tr>
<tr>
<td>ENL3273</td>
<td>British Literature 1900-1945</td>
</tr>
<tr>
<td>ENL4132</td>
<td>British Novel Conrad to the Present</td>
</tr>
</tbody>
</table>

## III. Cultural-Critical Studies (2 courses/6 hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>AML 3604</td>
<td>African American Literature</td>
</tr>
<tr>
<td>AML 3630</td>
<td>Latino/a Literature</td>
</tr>
<tr>
<td>AML 4111</td>
<td>Nineteenth-Century American Novel</td>
</tr>
<tr>
<td>AML 4121</td>
<td>Twentieth-Century American Novel</td>
</tr>
<tr>
<td>ENG 4060</td>
<td>History of the English Language</td>
</tr>
<tr>
<td>ENL4122</td>
<td>Nineteenth-Century British Novel</td>
</tr>
<tr>
<td>ENL4132</td>
<td>British Novel Conrad to the Present</td>
</tr>
<tr>
<td>LIN 4671</td>
<td>Traditional English Grammar</td>
</tr>
<tr>
<td>LIT 3022</td>
<td>Modern Short Prose</td>
</tr>
<tr>
<td>LIT 3031</td>
<td>Survey of Poetry</td>
</tr>
<tr>
<td>LIT 3043</td>
<td>Modern Drama</td>
</tr>
<tr>
<td>LIT 3093</td>
<td>Contemporary Literature</td>
</tr>
<tr>
<td>LIT 3101</td>
<td>Literature of the Western World through Renaissance</td>
</tr>
<tr>
<td>LIT 3102</td>
<td>Literature of the Western World since Renaissance</td>
</tr>
<tr>
<td>LIT 3144</td>
<td>Modern European Novel</td>
</tr>
<tr>
<td>LIT 3410</td>
<td>Religious and Philosophical Themes in Literature</td>
</tr>
<tr>
<td>LIT 4386</td>
<td>British and American Literature by Women</td>
</tr>
</tbody>
</table>

## IV. Electives (3 courses/9 hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>AML 4300</td>
<td>Selected American Authors</td>
</tr>
<tr>
<td>ENG 4674</td>
<td>Film and Culture</td>
</tr>
<tr>
<td>ENL4303</td>
<td>Selected British Authors</td>
</tr>
<tr>
<td>LIT 3374</td>
<td>Bible as Literature</td>
</tr>
<tr>
<td>LIT 3930</td>
<td>Selected Topics in Literature</td>
</tr>
<tr>
<td>LIT 4930</td>
<td>Selected Topics in English Studies</td>
</tr>
</tbody>
</table>

Any additional major course listed (above) under Option 1, LIT
Any major CRW course listed under Option 2, CRW major
Any major ENC course listed under Option 3, CWT major

### Specialization Area II: 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) the ability to critique student manuscripts and offer constructive feedback within a workshop setting.

1. **Writing Requirements:** Six courses (18 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 (May be repeated twice for a total of 6 credits.
       Choices would include creative nonfiction, screenwriting, craft courses in fiction/poetry, young adult literature, lyric poetry, etc.).

2. **Literature Requirements:** Six courses as follows:
   - One of the following courses that concentrates on literature written pre-1900:
     - AML 3031
     - AML 3032
     - AML 4111
     - ENG 4060
     - ENL 3015
     - ENL 3016
     - ENL 3017
     - ENL 3230
     - ENL 3251
   - Five (5) additional major literature courses from those listed in Area 1, the Literature major.

**Specialization Area III: Professional Writing, Rhetoric and Technology (CWT)**

Professional Writing, Rhetoric, and Technology: This undergraduate degree 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 will produce 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 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 4906 Internship

2. **Electives:** 7 courses from the following: (21 hours)
   - ENC 3250 Professional Writing
   - ENC 3310 Expository Writing
   - ENC 4020 Rhetorical Theory
   - ENC 4260 Advanced Technical Writing
   - ENC 4931 Selected Topics in Technical and Professional Writing
   - Any courses listed in Specialization Area I, the Literature major
   - Any courses listed in Specialization Area II, the Creative Writing major

**Minor in English and American Literature**

Requirements (15 hours):
1. One AML major course
2. Two ENL major courses
3. One 4000-level course from the LIT major
4. One additional course from any English Department major: LIT, CRW, CWT
Minor in Creative Writing

Requirements (15 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 major

Minor in Technical Communication and New Media

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 LIT major

English Honors Program

The Department of English Honors Program will provide 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).
         Note: ENG 4935 and ENG 4936 may each be taken only once. Consequently, if ENG 4935 is taken to fulfill the three-hour Honors seminar requirement listed in A. above, it MAY NOT be taken to fulfill the remaining six hours of credit in Honors. And the same situation applies for 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.

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.

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 3.00.

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)**

The status of the earth’s environment has been a major concern since the 1960s. 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 students must complete the University’s General Education Requirements. 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 4 four electives within designated tracks. Students choosing to sub-specialize in policy take environmental law and environmental economics and 4 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

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.

There are no State Mandated Common Prerequisites for this degree program.

The transfer student should also be aware of the immunization, foreign language, and continuous enrollment policies of the university.

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 2010 and BSC 2010L Biology I and Lab 4
BSC 2011 and BSC 2011L Biology II and Lab 4
and
CHM 2045 & CHM 2045L General Chemistry & Lab 4
CHM 2046 & CHM 2046L General Chemistry II & Lab 4
plus
STA 2023 Statistics 3
One approved Geology or Physics Course with Lab 4
and either
MAC 2241 Life Sciences Calculus I 4
or
MAC 2281 Engineering Calculus I 4
or
MAC 2311 Calculus I 3
A second semester of calculus is only required of students pursuing the ESP-Science concentration. Students may choose among:
MAC 2242 Life Sciences Calculus II 4
or
MAC 2282 Engineering Calculus II 4
or
MAC 2312 Calculus II 3

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 ALL ENVIRONMENTAL SCIENCE MAJORS

EVR 2002 Environmental Science
EVR 2001L Intro to Environmental Science Lab
EVR 2861 Intro 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

Calculus
MAC 2241 Life Science Calculus I or MAC 2281 Engineering Calculus I or MAC 2311 Calculus I

Statistics
STA 2023 Introductory Statistics or QMB 2100 Business and Economic Statistics or EGN 3443 Engineering 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
PHY 2048L General Physics I Lab
or
PHY 2053 General Physics I
PHY 2053L General Physics I Lab

Science Track
MAC 2242 OR MAC 2282 OR MAC 2312 and CHM 2210 and CHM 2210L plus 4 four approved science-related electives.

Requirements for the Minor in Environmental Policy
A total of 19-20 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:
EVR 2002 Environmental Science
EVR 2001L Introduction to Environmental Science Lab
EVR 2861 Introduction to Environmental Policy

Three of the following four courses:
PUP 4203 Environmental Politics and Policy
PHI 3640 Environmental Ethics
GEO 4502 Economic Geography
POS 3697 Environmental Law

Plus one approved policy-related elective.

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, K. Alsharif, J. Downs; Instructors: M. Hafen, R. Jones, C. Mizak; L. Walker; Adjuncts: G. Anderson, D. Weir.

- GEOGRAPHY (GPY) (CIP = 45.0701)

  The degree program in Geography consists of 11 courses (41 hours total), 7 of which are core courses required of all majors, and four of which are electives chosen by the student. 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

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.

Two introductory courses in Geography with GEO prefix must be completed:

GEO XXXX 3
GEO XXXX 3

Major Course Requirements

A major in Geography consists of 11 courses as follows:

Required core courses (7 courses + lab):

GEO 2200 Intro to Physical Geography 3
GEO 2200L Intro to Physical Geography Lab 1
GEO 2400 Intro to Human Geography 4
GEO 3164C Research Methods in Geography 4
GEO 4933 Geography Colloquium 1
GIS 3006 Computer Cartography 4
GIS 4043C Geographic Information Systems 4
GEA XXXX One course with GEA prefix 4

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 Courses (4 courses):

With the help of their advisor, majors must select 4 courses (or 16 credits) from among the following list for their
additional course work:

GEO 3602 Urban Geography 4
GEO 4114C Geographic Techniques & Methodology 4
GEO 4204C Topics in Physical Geography 4
GEO 4210 Process Geomorphology 4
GEO 4244 Tropical Meteorology 4
GEO 4265 Soil Genesis and Classification 4
GEO 4280C Hydrology 4
GEO 4284 Water Resources Management 4
GEO 4300 Biogeography 4
GEO 4340 Natural Hazards 4
GEO 4372 Global Conservation 4
GEO 4421 Cultural Geography 4
GEO 4471 Political Geography 4
GEO 4502 Economic Geography 4
GEO 4604 Topics in Urban Geography 4
GEO 4700 Transportation Geography 4
GEO 4930 Selected Topics 4
GIS 4035C Remote Sensing of the Environment 4
Courses Excluded as Electives for the major:
- GEO 1930 Geography of Current Events
- GEO 2371 Earth System Science

Only 4 combined 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 course work. Students must maintain a minimum 2.00 major GPA in order to graduate.

Requirements for the Minor in Geography
A minor in Geography consists of 20 credit hours, with a minimum grade-point average of 2.00. The required courses are:
- GEO 2200 (3)
- GEO 2200L (1)
- GEO 2400 (4)
- One GEA elective (4) and two upper level (3000-5000 level) GEO, GIS, MET or URP electives (8).

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/GLS) (CIP = 40.0601)

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 subdisciplines 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.

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 (or their equivalents) must be completed before the degree is granted. Unless stated otherwise, a grade of "C" is the minimum acceptable grade.
- CHM 1045/1045L General Chemistry I (with lab) or CHM 1045C or CHM 1045E
- CHM 1046/1046L General Chemistry II (with lab) or CHM 1046C or CHM 1046E
- GLY 2010C Introduction to Physical Geology
- MAC 2311 Calculus I
- PHY 2048C* General Physics and Laboratory I or PHY 2048/2048L or PHY 2053C
- PHY 2049C* General Physics and Laboratory II or PHY 2049/2049L or PHY 2054C
XXX XXXX Historical Geology STRONGLY recommended

*The choice of physics sequence depends on the area of geology specialization.

**Requirements for the Major in Geology (BA)**

1. Geology courses (36 hours):
   a. Introductory Sequence* (4 hours):
      1) One course chosen from GLY 2010, GLY 2030, GLY 2100, and OCE 2001 (3) or other comparable acceptable course offerings, as approved by the Undergraduate Advisor (3)
      2) GLY 2000L
         
         *(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 4
      GLY 3402C The Solid Earth: Plate Tectonics and Earth Structure 4
      GLY 3552C Sedimentary Record 1: Sedimentary Processes and Petrology 4
      GLY 3720C Fluid Earth 1: Basic Principles or GLY 4822C Fluid Earth 2: Hydrogeology 4
      GLY 4104C Sedimentary Record 3: Paleontology and Earth Evolution* 4
      *(Requirement is waived for students who have taken GLY2010, GLY 2000L or GLY 2010L, and GLY 2100, GLY 2100L)
      GLY 4310C Petrology 4
      GLY 4866 Computational Geology 3
      GLY 4921 Geocommunications 3
      GLY 4780 Geologic Field Studies 3
      And/or other 3000-4000 level GLY courses, as approved by the Undergraduate Advisor

   c. Upper-Level Electives (12 hours):
      GLY 4554C Sedimentary Record 2: The Earth’s Surface 4
      GLY 4104C Sedimentary Record 3: Paleontology and Earth Evolution
      *(if not counted toward Core requirements above)
      GLY 4324C Physical Volcanology 4
      GLY 4480C Seismology 4
      GLY 3720C Fluid Earth 1: Basic Principles or GLY 4822C, Fluid Earth
      2: Hydrogeology (if not counted toward Core requirements above) 4
      GLY 4310C Petrology 4
      GLY 4866 Computational Geology 3
      GLY 4921 Geocommunications 3
      GLY 4780 Geologic Field Studies 3
      And/or other 3000-4000 level GLY courses, as approved by the Undergraduate Advisor

2. Supporting Courses for the B.A. Degree (24 hours):
   CHM 2045, 2045L, CHM 2046, 2046L
   MAC 2281, 2282 (recommended) or MAC 2241, 2242 or MAC 2311, 2312
   PHY 2048, 2048L, PHY 2049, 2049L (recommended) or PHY 2053, 2053L, PHY 2054, 2054L

**Requirements for the Major in Geology (BS)**

1. Geology courses (44 hours):
   a. Introductory Sequence* (4 hours):
      1) One course chosen from GLY 2100, GLY 2010, GLY 2030, and OCE 2001, or other comparable acceptable course offerings, as approved by the Undergraduate Advisor (3)
      2) GLY 2000L
         
         *(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 4
      GLY 3402C The Solid Earth: Plate Tectonics and Earth Structure 4
      GLY 3552C Sedimentary Record 1: Sedimentary Processes and Petrology 4
      GLY 3720C Fluid Earth 1: Basic Principles
      OR
      GLY 4822C Fluid Earth 2: Hydrogeology 4
      GLY 4104C Sedimentary Record 3: Paleontology and Earth Evolution* 4
      *(Requirement is waived for students who have taken GLY2010, 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 4
   GLY 4104C Sedimentary Record 3: Paleontology and Earth Evolution 4
   (if not counted toward Core requirements above) 4
   GLY 4324C Physical Volcanology 4
   GLY 4480C Seismology 4
   GLY 3720C Fluid Earth 1: Basic Principles or GLY 4822C, Fluid Earth 4
   2: Hydrogeology (if not counted toward Core requirements above) 4
   GLY 4310C Petrology 4
   GLY 4866 Computational Geology 3
   GLY 4921 Geocommunications 3
   GLY 4780 Geologic Field Studies 3
   And/or other 3000-4000 level GLY courses, as approved by the Undergraduate Advisor

Quantitative Requirement: 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, GLY
4822C, GLY 4324C, GLY 4480C. Others may be approved by the Undergraduate Advisor

d. Capstone Sequence (6 hours):
   6 hours of GLY 4947L/4948L/4949L (1 credit of each of these and any combination for the remaining 3
   credits), or an Approved Geology field course.

2. Supporting Courses for the BS Degree (28 hours):
   BSC 2010, 2010L
   CHM 2045, 2045L, CHM 2046, 2046L
   MAC 2281, MAC 2282 (recommended) or MAC 2311, MAC 2312
   PHY 2048, 2048L, PHY 2049, 2049L (recommended) or PHY 2053, 2053L, 2054, 2054L

Liberal Arts Requirements
All students are required to complete the University's Foundations of Knowledge and Learning core curriculum.

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
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
16 credit hours are required, which must include the completion of the introductory sequence courses (4 hours)
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 honor’s 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 3.20.

Geology Faculty
Chairperson: J. G. Ryan; Assistant Chairperson: P. Wang; Professors: C. Connor, P. J. Harries, J. G. Ryan; M. T.
Stewart, H. L. Vacher; Associate Professors: G. S. Herbert, S. E. Kruse, B. Onac, M. Rains, P. Wang, P. Wetmore;
Assistant Professors: R. Malservisi, M. Pasek, J. Wynn; Instructors: J. Gould, J. McIlrath, T. C. Juster; Adjunct
Faculty: E. Rodríguez; Research Associates: Z. Atlas, L. Connor, Courtesy Faculty: C. Bonadonna, R. Denicourt, RM.
Olney, T. Pichler, D. Roman, V. Sales, S. Sandberg, T. M. Scott, J. Sorauf, S. Upchurch, K. Watson; Assistant
Curator: R. Cambpell, G. Vest; Emeritus Distinguished Professor: R. A. Davis.
The Department of Government and International Affairs includes programs in International Studies, Political Science, and Public Administration. 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, including electives offered through the Public Administration program. For more specific details students are advised to consult the description of each specific program below.

- **INTERNATIONAL STUDIES (INT) (CIP = 45.0901)**

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**

**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.

The transfer student should also be aware of the immunization, foreign language, and continuous enrollment policies of the university.

While the INT program does not have mandatory prerequisites, a student may apply up to 10 credit hours of lower level courses from the following list: AFS 2250, Culture and Society in Africa, ANT 2410, Cultural Anthropology; GEA 2000, World Regional Geography; CPO 2002, Comparative Politics; INR 2002, Introduction to International Relations; REL 2300, Introduction to World Religions; or GEB 2350, Doing Business Around the World.

**Upper-level Course Requirements**

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. The six required courses are:

- INR 3011 Globalization 3
- INR 4083 Conflict in the World 3
- INR 3038 International Wealth and Power or CPO 4034 Politics of Developing Areas 3
- INR 3202 International Human Rights or INR 4502 International Organizations 3

Plus two area studies courses from the INT upper division electives (3 hours each).

The additional 18 hours must include at least three elective courses (9 hours) from within the 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.

With the approval of the major advisor, credits earned in INR 4900 (1-3) and INR 4910 (1-3) 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 INT 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**

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 3
- INR 4083 Conflict in the World 3
- INR 3038 International Wealth and Power or CPO4034 Politics of Developing Areas 3
- INR 3202 International Human Rights or INR 4502 International Organizations 3

Plus 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.

**International Studies Faculty**


**POLITICAL SCIENCE (POL) (CIP = 45.1001)**

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**

*Prerequisites (State Mandated Common Prerequisites) for Students Transferring from a Florida College System Institution*

Students should complete any two introductory courses with a POS, INR or CPO prefix (ideally POS 1041 or POS 2041, and POS 1112 or POS 2112) at the lower level prior to entering the university. If these introductory courses are not taken at the community college, they must be completed before the degree is granted. A grade of “C” is the minimum acceptable grade.

**Upper-level Course Requirements**

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. No more than six 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 3 credit hours of Economics (See your advisor for recommendations).

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.

The undergraduate curriculum in political science is composed of the following:

**Required Core Courses (12 credit hours)**

- CPO 2002 Introduction to Comparative Politics 3
  or
- INR 2002 Introduction to International Relations 3
  and
- POS 2041 American National Government 3
- POT 3003 Introduction to Political Theory 3
- POS 3713 Empirical Political Analysis 3

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.

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.

Students must choose electives from the seven fields (24 credit hours) 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 courses must be completed before a course from a given field or field grouping can be taken.

**Field I: Political Theory**

- POT 3013 (3)
- POT 4064 (3)
Requirements for the Minor in Political Science

A minor in political science requires the completion of a minimum of 18 credit hours, made up of two courses (6 credit hours) from among CPO 2002 (or INR 2002), POS 2041, and POT 3003. An additional 12 credit hours of courses included in the Political Science major are also required.

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 grade point average in political science courses and a 3.0 overall 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 (3). 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.

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 program.

The transfer student should also be aware of the immunization, foreign language, and continuous enrollment policies of the university.

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. Unless stated otherwise, a grade of "C" is the minimum acceptable grade.

<table>
<thead>
<tr>
<th>Course</th>
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<th>Credits</th>
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<tr>
<td>AMH 2010</td>
<td>American History I</td>
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<tr>
<td>AMH 2020</td>
<td>American History II</td>
<td>(3)</td>
</tr>
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<td>ENC 3310</td>
<td>Expository Writing</td>
<td>(3)</td>
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<tr>
<td>EUH 1000</td>
<td>World Civilization I</td>
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<tr>
<td>EUH 1101</td>
<td>World Civilization II</td>
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<tr>
<td>POS 2112</td>
<td>State and Local Government</td>
<td>(3)</td>
</tr>
<tr>
<td>SPC 2608</td>
<td>Public Speaking</td>
<td>(3)</td>
</tr>
</tbody>
</table>

International Affairs Focus in Political Science

The area of Political Science offers a number of courses that prepare students for graduate study in International Relations and career opportunities in private or public transnational organizations.

Basic courses in the area include:

- INR 2002 Introduction to International Relations
- CPO 2002 Introduction to Comparative Politics
- INR 3102 American Foreign Policy

In addition, Political Science offers the following upper-level courses:

- CPO 4034 Politics of Developing Areas
- CPO 4930 Comparative Politics of Selected Areas
- INR 4334 Defense Policy
- INR 4035 International Political Economy
- INR 4403 International Law
- INR 4502 International Organizations
- CPO 5934 Selected Topics in Comparative Politics
- INR 5086 Issues in International Relations

Students desiring careers in international affairs or international administration are encouraged to supplement these courses with courses offered in International Studies, Management, Economics, Business Administration, Foreign Languages, and Public Administration.

Political Science Faculty


Public Administration (PAD) (CIP = 44.0401)

The Public Administration Program offers courses that serve as electives for undergraduate students. Completion of these 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. The courses listed below may be taken for undergraduate credit. Please note that the 5000-level courses listed are available to seniors and graduate students only.

PAD 3003 Introduction to Public Administration
PAD 4144 Nonprofit Organizations and Public Policy
PAD 4204 Public Financial Administration
PAD 4419 Personnel and Supervision in Today’s Organizations
PAD 4712 Managing Information Resources in the Public Sector
PAD 4930 Selected Topics in Public Administration and Public Policy
PAD 5035 Issues in Public Administration and Public Policy
PAD 5044 Environment of Public Administration
PAD 5333 Concepts and Issues in Public Planning
PAD 5605 Administrative Law and Regulation
PAD 5700 Research Methods in Public Administration
PAD 5807 Urban and Local Government Administration
PAD 5836 Comparative Public Administration
POS 5159 Urban Policy Analysis

Requirements for the Minor in Public Administration

The minor in Public Administration consists of 15 credit hours.

Required Public Administration Courses (12 cr. hrs.)

- PAD 3003 Introduction to Public Administration 3
- PAD 4204 Public Financial Administration 3
- PAD 4419 Personnel and Supervision for Today’s Organizations 3
- PAD 4712 Managing Information Resources in the Public Sector 3

Public Administration Electives

- 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 5836 Comparative Public Administration
- PAD 5035 Issues in Public Administration and Public Policy
- PUP 4002 Public Policy

Public Administration Faculty

Director: J.L. Daly; Professors: J. E. Jreisat, J. E. Pynes; Associate Professors: J. L. Daly; Assistant Professors: S. Aikins, M. Chary; Joint Appointments: Professor: J. E. Benton.

**HISTORY (HTY) (CIP = 54.0101)**

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 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

A minimum of 36 semester hours is required for a major 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. The transfer student should be aware of the immunization, foreign language, and continuous enrollment policies of the university. Specific
state mandated common prerequisites for admission to the major include six (6) hours of introductory history courses with AMH, EUH, LAH, ASH, HIS or WOH prefixes.

Lower-level Course Requirements for the Major

Including the six credits of courses to meet the common prerequisites 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. Two of these courses must be sequential. Students may choose from introductory courses in the fields of Ancient, Medieval, Modern European, or American history to fulfill this two-course sequence. The remaining hourly requirements may be filled by taking any of the other 2000 level history courses.

Students at a community college planning to transfer to USF and major in history are encouraged to complete as many of the lower level requirements as possible at the community college level. Courses that fulfill the General Education/Gordon Rule requirement would be especially valuable. The minimum acceptable grade for courses being transferred for history department credit is a "C-". If these courses have not been completed satisfactorily upon enrolling at USF, they must be taken before the degree is granted.

Upper-level Course Requirements for the Major

A minimum of 24 hours of course work from the 3000-4000 level is required to fulfill the 36-hour minimum requirement. Two of these courses, the Pro-Seminar and the Theory of History courses are required for all majors. A GPA of 2.25 in the history major is required before a student can be permitted into either of these courses. Additionally, these courses may not be taken during the same semester. The remaining 16 hours of credit may be chosen from the department offerings each 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/Internet Research Skills." Additional hours can be profitably drawn from the following disciplines: Africana Studies, American Studies, Anthropology, Classics, Economics, Geography, Government and International Affairs, Philosophy, Religious Studies, Sociology, Women's Studies, Literature, the Humanities, and Art History.

Open University courses and exit courses titled "Issues in History" (HIS 3938) and "War and Society" (HIS 3308) are not eligible for major field credit.

Requirements for the Minor in History

The minor in History entails an 18-hour program organized and contracted by the student and the department around the specific needs of the student's major program. A minimum of 8 hours must be completed at the University of South Florida. A minimum grade of "C-" or better must be attained in each course. One lower-level sequence is required, earning 6 credit hours. The department will supervise certification of the minor. Students interested in a minor in history are encouraged to see the History department advisor as early in their undergraduate program as possible.

Open University courses and exit courses titled "Issues in History" (HIS 3938) and "War and Society" (HIS 3308) are not eligible for minor field credit.

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 each area. For more specific details, students are advised to consult the description of each specific program below.

• HUMANITIES (HUM) (CIP = 24.0103)

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

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.

The transfer student should also be aware of the immunization, foreign language, and continuous enrollment policies of the university.

Students are encouraged to complete the following major, support, or elective courses, if available, during the program of study at the community college, and when feasible in Foundations of Knowledge and Learning/Gordon Rule courses. Unless stated otherwise, a grade of “C” is the minimum acceptable grade.

ENC 1101 Composition I 3
ENC 1102 Composition II 3
Humanities (HUM 2000-level courses) 6
Creative Writing courses (CRW courses) 3-6
Introductory courses in applied and non-applied Fine Arts (ART, MUS) 6
Literature in Translation (RUT, CLT courses) 3-6
Social Science (AMH, EUH courses) 6

Course Requirements for the Humanities Major - 36 credit hours, distributed as follows:

Core Courses - 12 hours:
1. HUM 2230 European Humanities: Renaissance – 20th Century 3
2. One additional Interdisciplinary Historical Survey: 3
   HUM 2210 Studies in Culture: The Classical Through Medieval Periods or
   HUM 2250 Studies in Culture: The 20th Century or AMS 2270 20th-Century
   American Culture or HUM 2466 Latin American Civilization II: Modern Latin
   America
3. One Introductory Genre or Medium course 3
   FIL 1002 Introduction to Film Studies or HUM 2522 Introduction to the
   Cultural Study of Popular Music or A similar course approved by the department
4. HUM 3804 Introduction to Cultural Studies (prereq. HUM 2230 or AMS 2030) 3
   Students must pass this course with a B- or better in order to register for the Pro-seminar.

Concentration Courses - 9 hours
Coursework chosen in consultation with the Undergraduate Advisor to form a coherent focus of study. Students will follow one of two concentrations: Modern Humanities or Ancient, Medieval and Early Modern. Up to six of these hours can be taken in approved courses outside the department. Preapproved departmental courses include (all courses are 3 credits):

Ancient, Medieval, and Early Modern Concentration
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 3241 Central Medieval and Gothic Europe
HUM 3242 The Enlightenment

Modern Concentration
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 “Concentration” 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 Pro-seminar 3
   Students must have at least 6 units of upper-level major coursework in addition to a B- in HUM 3804 in order to enroll in HUM 4331 Pro-Seminar.
2. HUM 4931 Seminar in Humanities 3
   Students must pass HUM 4331 with at least a C- to register for HUM 4931.

Requirements for the Minor in Humanities
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:
1. 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
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 3
2. FIL 3052 Foundations of Film & New Media (pre-req. FIL 1002) 3
3. HUM 3930 Selected Topics in Humanities: Contemporary Film & New Media 3
4. One 3000- or 4000- Level Genres/Auteurs/Production Course 3
   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: Reality TV
   GET 3522 Fantastic Films of Early German Cinema
   GEW 4930 Selected Topics: German Directors in Hollywood
   HUM 4582 Film Auteurs
   HUM 4890 Genres and Media
   LIT 4930 Selected Topics in English Studies: French New Wave
   LIT 4930 Selected Topics in English Studies: Noir Fiction and Film
   LIT 4930 Selected Topics in English Studies: Rogue Filmmakers
5. One 3000- or 4000- Level National Cinemas/Themes Course 3
   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: Italian Cinema
   REL 3111 The Religious Quest in Contemporary Films
   SPC 4310 Relationships on Film
   SPT 3100 Masterpieces of Hispanic Literature
   SPW 4930 Selected Topics: Hispanic Cinema and 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.

• AMERICAN STUDIES (AMS) (CIP = 05.0102)
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.

The transfer student should also be aware of the immunization, foreign language, and continuous enrollment policies of the university.

Students are encouraged to complete the following 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. Unless stated otherwise, a grade of “C” is the minimum acceptable grade.

AMH 2010 American History I 3
AMH 2020 American History II 3
ENC 1101 Composition I 3
ENC 1102 Composition II 3
POS 2041 American National Government 3

Course Requirements for the American Studies Major - 36 credit hours, distributed as follows:
1. AMS 2030 Introduction to American Studies
2. AMS 2270 Twentieth-Century American Culture
3. Two 3000- or 4000-level Period courses
   (e.g. AMS 3230, AMS 3001, AMS 3260)
4. One 3000- or 4000-level Regions or Regionalisms course
   (e.g. AMS 4210)
5. Two 3000- or 4000-level Genre or Media courses
   (e.g. AMS 3601, AMS 4305, HUM 4582, AMS 4305)
6. 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 units 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 3
2. AMS 2270 Twentieth-Century American Culture 3
3. Twelve (12) hours of upper-level AMS courses or other departmental courses approved by the undergraduate advisor.

Humanities and Cultural Studies Faculty


• INTERDISCIPLINARY SOCIAL SCIENCES (ISS) (CIP = 45.0101)

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.

Florida College System courses may be counted toward the ISS degree. These could include Foundations of Knowledge and Learning credits, Gordon Rule classes, and courses such as the examples listed below. A grade of C- is the minimum acceptable grade.

- AFA 2000 Introduction to the Black Experience [In Africa and Its Diaspora] 3
- AMH 2010 American History I 3
- AMH 2020 American History II 3
- ANT 2000 Introduction to Anthropology 3
- ECO 2013 Economic Principles (Macroeconomics) 3
- ECO 2023 Economic Principles (Microeconomics) 3
- GEA 2000 World Regional Geography 4
- POS 2041 American National Government 3
- POS 2112 State and Local Government 3
- SYG 2000 Introduction to Sociology 3
- WST X015 Introduction to Women’s Studies 3

Interdisciplinary Core Courses

Two of these courses, an introductory course (3010) and the senior seminar (4935), 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. Social Science Statistics (STA 2122) 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 3
   - ISS 4935 Seminar in the Social Sciences 3
   - STA 2122 Social Sciences Statistics -6A QM 3

2. The ISS student chooses between two concentration areas and completes twelve hours in each. In addition, three special electives emphasize cultural diversity: Africana Studies, Women’s Studies and International Studies.

3. Upon declaration of the major students should meet with the 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.

4. The completion of 42 approved hours of course work from the College of Arts and Sciences (CAS), with a minimum of 30 hours at the 3000 or above level.

5. Students must maintain a minimum grade point average of 2.00 in ISS to graduate.

6. ISS majors must satisfy two semesters of a foreign language in order to graduate.

7. Other personal curricula may be tailored for those highly motivated students, with a minimum grade point average of 3.20, 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.

Concentration AREAS - Students select two areas and take 12 hours in each. Concentrations must be selected from the areas of study listed below:


Interdisciplinary Social Sciences Faculty

Director: S. Bingham.
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. Check with Advisor for current criteria.

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 2012 Introduction to Psychological Science
- STA 2023 Introductory Statistics I
- ECO 2013 Economic Principles (Macroeconomics)
- CGS XXX Database Course (or any Database course)

NOTE: Check with an advisor for current criteria.

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 4414 Information Policy and Ethics
- LIS 4365 Web Design Technologies
- LIS 3352 Interaction Design
- LIS 4204 Information Behaviors
- LIS 4930 Data Structures and Algorithms

Electives (15 credits)

NOTE: Check with Advisor for current approved electives and criteria.

Exit Courses (6 credits):

- ENC 3249 Communication for Information Professionals
- LIS 4930 Capstone Seminar for Information Studies

NOTE: Check with an advisor for current criteria

School of Information Faculty


MASS COMMUNICATIONS (COM) (CIP = 09.0102)

The University of South Florida’s School of Mass Communications is fully accredited by the Accrediting Council on Education in Journalism and Mass Communications (ACEJMC), one of 112 accredited programs in the nation. The 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.

Majors seeking careers in the mass media will be directed to the various media in close contact with the School for summer internships, practica and part-time work. A limited number of students will have the opportunity to serve as interns with a mass communications organization and take MMC 4945 for three hours credit. Students may not receive credit for both an internship (MMC 4945) and a practicum (ADV 4940, JOU 3940, JOU 4941, JOU 4944, PUR 4700, RTV 3941, RTV 4942, VIC 3943).

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.

The transfer student should also be aware of the immunization, foreign language, and continuous enrollment policies of the university.

Students must complete 18 semester hours 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” 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”) 6
- MMC 3602 Mass Communications and Society 3

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”),
2. Earn a 2.75 overall GPA
3. Pass a School-administered English Diagnostic Test.

A maximum of nine 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 introduction 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” 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” before any other Mass Communications course may be taken. Students failing to achieve a minimum grade of “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 hours of core curriculum courses (MMC 2100 and MMC 3602) and 31 hours of required and selective 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 2.50 GPA in Mass Communications courses is required for graduation.
2. No student may graduate with a grade lower than “C” in any Mass Communications course.
3. 80 hours in courses outside the School of Mass Communications, including 65 hours in the liberal arts (as approved by the department).
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 description (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 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 Core Curriculum

MMC 2100 Writing for the Mass Media
MMC 3602 Mass Communication and Society

Sequence Requirements

**ADVERTISING Requirements**

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

**Sequence Specialization Courses** (two courses within specialization)
Creative Specialization (two courses)
ADV 4204 Advanced Advertising Creativity (required)
ADV 4710 Portfolio Building or MMC 4936 Selected Topics in Mass Communications Studies*
Media Specialization (two courses)
ADV 4301 Advanced Media Strategy (required)
ADV 4310 Digital Media or MMC 4936 Selected Topics in Mass Communications Studies*

**Selective Requirements** (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

**Multimedia Journalism and Production Requirements**

**News-Editorial Option**
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

Selective Requirements (10 hours required, 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
and
POS 2112 State and Local Government and Politics or POS 3142 Intro to Urban Politics & Government

Magazine Option
JOU 2100 Beginning Reporting
JOU 3101 Advanced Reporting
JOU 3308 Magazine Article and Feature Writing
JOU 4201 News Editing I
JOU 4212 Magazine Article and Production
MMC 4200 Communications Law
MMC 4203 Communication Ethics
MMC 4420 Research Methods

Selective Requirements (7 hours required, 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
and
POS 2112 State and Local Government and Politics or POS 3142 Intro to Urban Politics and Government

Telecommunications News Option
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

Selective Requirements (9 hours required, 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
and
POS 2112 State and Local Government and Politics or POS 3142 Intro to Urban Politics and Government

Telecommunications Production Option
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

Selective Requirements (9 hours required, selected with advisor’s approval)

Other Requirements: The following courses are required outside the School to complete sequence requirements:
PHI 1103 Critical Thinking
and
CRW 2100 Narration and Description or ENC 3310 Expository Writing

PUBLIC RELATIONS Requirements
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 4801 Advanced Public Relations

Selective Requirements (4 hours required, 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
The minor in Mass Communications is available to students pursuing any other major at USF. Students who wish to minor must apply for admission to the School of Mass Communications and must meet all admission standards required of majors. Please see “Requirements for the Major in Mass Communications” for more admission information.

The minor in Mass Communications requires a minimum of 18 hours of School coursework, including:
MMC 2100 (3) MMC 3602 (3)

The other 12 hours may be selected from among School offerings and must include a minimum of 9 hours at the 3000-level or higher. All major course prerequisites must be met. A grade of “D” or “F” will not be counted toward a mass communications minor and a 2.50 grade point average in all minor coursework must be maintained. All minor hours must be completed at USF.

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 (2.00 grade points) 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, see the description given in the College of Education, Department of Secondary Education.

**MATHEMATICS (MTH) (CIP = 27.0101)**

**Requirements for the Major in Mathematics**

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 Computer Language Course*
- MAC X311 Calculus I
- MAC X312 Calculus II
- MAC X313 Calculus III
- MAP X302 Differential Equations

Students must also complete one laboratory based science course from the following:

- BSC XXXX / XXXXL 4
- CHM XXXX / XXXXL 4
- PHY XXXX / XXXXL 4
- GLY XXXX / XXXXL 4

*a scientific programming course designed for computer science majors - (Pascal, FORTRAN, C, C+, or C++ recommended)

**MAJOR IN MATHEMATICS**

In order to gain the admission to the program a student must satisfy the following requirements:

1. have at least a 2.0 grade point average for all USF college courses, and
2. have at least a 2.0 grade point average 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.

Majors 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 (23 credit hours):
     - MAC 2311 Calculus I 4
     - MAC 2312 Calculus II 4
     - MAC 2313 Calculus III 4
     - MAP 2302 Differential Equations 3
     - MGF 3301 Bridge to Abstract Mathematics 4
     - MAS 3105 Linear Algebra 4
   - **Analysis Requirement.** Majors must complete one of the following two courses (4 credit hours):
     - MAA 4211 Intermediate Analysis I 4
     - MAS 4156 Vector Calculus 4
   - Majors who complete both MAA 4211 and MAS 4156 may count one of these towards the Elective Requirement below.
   - **Elective Requirement.** Majors must complete six courses from the following electives (Minimum 18 credit hours):
     - COP 4313 Symbolic Computations in Mathematics 3
### 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 3.00 grade point average for all college courses, and
3. have at least a 3.50 grade point average for mathematics courses.

Applications are submitted to the Undergraduate Committee of 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 3.00 average for all college courses, and
6. at least a 3.50 average for mathematics courses.

### ACCELERATED BA/MA 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 BA and MA degree in mathematics in four to five years.

The program meets all the requirements for the BA degree, but requires the student to take those graduate level courses required for the MA degree during the last two years in the program. Up to 20 hours of graduate courses may be counted towards the MA degree as well as the BA 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 3.00 grade point average for all college courses, and
3. have at least a 3.50 grade point average 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

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 26 credit hours):

1. Required Courses (20 credit hours)
   Either:
   - MAC 2311 Calculus I 4
   - MAC 2312 Calculus II 4
   - MAC 2313 Calculus III 4
   or
   - MAC 2281 Engineering Calculus I 4
   - MAC 2282 Engineering Calculus II 4
   - MAC 2283 Engineering Calculus III 4
   Also, both of the following:
   - MGF 3301 Bridge to Abstract Mathematics 4
   - MAS 3105 Linear Algebra 4

2. Elective Courses (Min. 6 credit hours)
   Complete any 2 of mathematics courses that are required or elective for the major in mathematics.

Special Notes:
   A student wishing to receive a minor in mathematics is required to take the minimum of 8 credit hours of required courses at the department of Mathematics and Statistics in USF.

• STATISTICS (STC) (CIP = 27.0501)

Requirements for the Major in Statistics

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 Computer Language Course*
- MAC X311 Calculus I
- MAC X312 Calculus with Analytic Geometry II
- MAC X313 Calculus III
- STA 2XXX Statistics

Students must also complete one laboratory based science course from the following:
- BSC XXXX / XXXXL 4
- CHM XXXX / XXXXL 4
- PHY XXXX / XXXXL 4
- GLY XXXX / XXXXL 4

*a scientific programming course designed for computer science majors - (Pascal, FORTRAN, C, C+, or C++ recommended)

MAJOR IN STATISTICS

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):

**Either:**
- MAC 2311 Calculus I  
- MAC 2312 Calculus II  
- MAC 2313 Calculus III

or
- MAC 2281 Engineering Calculus I  
- MAC 2282 Engineering Calculus II  
- MAC 2283 Engineering Calculus III

**Also:**
- 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 (Min. 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 4 courses from the following electives (Min. 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 Chairman.
- STA 4930, Selected Topics in Statistics may be taken as electives, with the prior approval of the Chairman.

### Mathematics and Statistics Faculty

Chairperson: M. M. McWaters;  
Associate Chairperson: L. Skrzypek;  
Distinguished University Professor: C. P. Tsokos;  
Associate Professors: T. Bieske, C. Beneteau, B. Curtin, S. Kouchekian, W. Ma, G. L. McCollm, M. M. McWaters, B. T. Nagle, L. Skrzypek, S. Suen;  
Assistant Professors M. Elhamdadi, W. Kim, R. Wooten, R. Teodorescu;  
Instructors: F. Burgos, A. Danielyan, M. Krajcevski, S. E. Rimbe;  
Scholar/Scientist/Engineer: A. Grinshpan;  

### PHILOSOPHY (PHI) (CIP = 38.0101)

**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.*

The transfer student should also be aware of the immunization, foreign language, and continuous enrollment policies of the university.

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

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 three 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 two courses
   PHI 4670 Contemporary Ethical Theory
   PHM 4340 Contemporary Political Philosophy

e. Two of the following three courses
   PHI 4300 Theory of Knowledge
   PHI 3404 Philosophy of Science
   PHI 4320 Philosophy of Mind

f. 12 credit hours of Philosophy electives, of which 6 must be at the 4000 or 5000 level

g. PHI 4938 Philosophy Capstone Seminar

Two additional stipulations apply:

1. Minimum passing grade requirement. No grade below C- in any required philosophy course or philosophy elective may count toward the major;

2. Beginning Fall 2010: Residency Requirement. 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

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 three 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

d. PHI 2101 Introduction to Formal Logic or PHI 3404 Philosophy of Science

e. 6 credit hours of Philosophy electives

No credit taken on an “S/U” basis may be applied toward the minor.

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 9 hours in Philosophy at the 3000 level or higher (PHI 2101 may count toward the 9 hours).
3. Students must have an overall grade point average of 3.00, and their grade point average in Philosophy must be at least 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 grade point average in Philosophy 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 3 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

Chairperson: R. Ariew; Professors: J. P. Anton (Distinguished Professor of Greek Philosophy & Culture), R. Ariew, C. Guignon, D. Jesseph, M. R. Schönfeld, O. Schutte, T. Williams; Distinguished Research Professor: S. P. Turner; Associate Professors: C. Heydt, A. Levine, R. Manning, B. Sadler J.B. Waugh (AFGLC Professor of Greek Culture), E. Winsberg; Assistant Professors: Michael Morris, Joshua Rayman; Visiting Instructor: Anthony DeSantis, Peyton McElroy, Dolores Morris; Courtesy Associate Professors: M. Gibbons, A. Chitwood, Wei Zhang; Courtesy Professor: S. Axinn; Emeritus Faculty: J.A. Bell, B. Silver, R.N. Taylor, R.C. Weatherford, K. Wiredu.

• PHYSICS (PHY/PHS) (CIP = 40.0801)

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 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 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.

CHM 1045/1045L General Chemistry I (with lab) or CHM 1040 & CHM 1041 or CHM 1045C or CHM 1045E
CHM 1046/1046L General Chemistry II (with lab) or CHM 1046C or CHM 1046E

It is recommended that students complete the following common prerequisite courses listed below prior to enrolling in upper division courses as a major. Unless stated otherwise, a grade of “C” is the minimum acceptable grade.

MAC 2311 Calculus I or MAC 2311L
MAC 2312 Calculus II or MAC 2312L
MAC 2313 Calculus III or MAC 2313L
PHY 2048/2048L General Physics I or PHY 2048C
PHY 2049/2049L General Physics II or PHY 2049C

Requirements for the Major in Physics (B.A. and B.S.)

Physics Courses

For the B.A. in PHYSICS (PHY) (33 credit hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Credit</th>
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</thead>
<tbody>
<tr>
<td>PHY 2048</td>
<td>General Physics I</td>
<td>3</td>
</tr>
<tr>
<td>PHY 2048L</td>
<td>General Physics I Lab</td>
<td>1</td>
</tr>
<tr>
<td>PHY 2049</td>
<td>General Physics II</td>
<td>3</td>
</tr>
<tr>
<td>PHY 2049L</td>
<td>General Physics II Lab</td>
<td>1</td>
</tr>
<tr>
<td>PHY 3101</td>
<td>Modern Physics</td>
<td>3</td>
</tr>
<tr>
<td>PHZ 3113</td>
<td>Mathematical Methods in Physics</td>
<td>3</td>
</tr>
<tr>
<td>PHY 3822L</td>
<td>Intermediate Lab</td>
<td>3</td>
</tr>
<tr>
<td>PHY 3221</td>
<td>Mechanics I</td>
<td>3</td>
</tr>
</tbody>
</table>
**PHY 3323** Electricity and Magnetism I 3
**PHY 4823L** Advanced Laboratory 3
**PHY 4930** Undergraduate Seminar 1
**PHY 4604** Introduction to Quantum Mechanics 3

Plus 3 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 3
**PHY 2048L** General Physics I Lab 1
**PHY 2049** General Physics II 3
**PHY 2049L** General Physics II Lab 1
**PHY 3101** Modern Physics 3
**PHZ 3113** Mathematical Methods in Physics 3
**PHY 3822L** Intermediate Lab 3
**PHY 3221** Mechanics I 3
**PHY 3323** Electricity and Magnetism I 3
**PHY 4823L** Advanced Laboratory 3
**PHY 4910** Undergraduate Research (2 hours recommended) 1-4
**PHY 4222** Mechanics II 3
**PHY 4930** Undergraduate Seminar 1
**PHY 4324** Electricity and Magnetism II 3
**PHY 4523** Statistical Physics 3
**PHY 4604** Introduction Quantum Mechanics 3

Plus 6 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 3
**CHM 2045L** General Chemistry I Lab 1
**CHM 2046** General Chemistry II 3
**CHM 2046L** General Chemistry II Lab 1
**MAC 2311 or 2281** Calculus I 4
**MAC 2312 or 2282** Calculus II 4
**MAC 2313 or 2283** Calculus III 4

*Liberal Arts Requirements*

The student is required to complete the university’s Liberal Arts Requirements.

*Free Electives*

Courses over and above required courses should be taken to complete a 120-hour program.

*Residency Requirement*

A minimum of 20 credit hours of physics courses (see 1 above) 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; for junior college teachers, see USF Graduate Catalog.

**Requirements for the Minor in Physics**

A minor in Physics consists of 17 credit hours which include:

*Required Courses*

**PHY 2048 or 2053** General Physics I 3
**PHY 2048L or 2053L** General Physics I Lab 1
**PHY 2049 or 2054** General Physics II 3
**PHY 2049L or 2054L** General Physics II Lab 1
**PHY 3101** Modern Physics 3

Plus 6 hours of upper level physics electives subject to approval of undergraduate advisor.

*Required Supporting Courses*

Correct prerequisites for any course required.

A “C-” is the minimum acceptable grade for any course in the minor.

A minimum “C” (2.00) average in the 19 credit hours is required for obtaining this minor.
### Requirements for the Minor in Biomedical Physics

A minor in Biomedical Physics consists of 16 credit hours which includes:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHY 2048 or 2053</td>
<td>General Physics I</td>
<td>3</td>
</tr>
<tr>
<td>PHY 2048L or 2053L</td>
<td>General Physics I Lab</td>
<td>1</td>
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<td>PHY 2049 or 2054</td>
<td>General Physics II</td>
<td>3</td>
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<td>General Physics II Lab</td>
<td>1</td>
</tr>
<tr>
<td>PHZ 4702</td>
<td>Applications of Physics to Biology and Medicine I</td>
<td>(4)</td>
</tr>
<tr>
<td>PHZ 4703</td>
<td>Applications of Physics to Biology and Medicine II</td>
<td>4</td>
</tr>
</tbody>
</table>

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 “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.

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### Physics Faculty


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### Requirements for the Major in Psychology

#### 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.

- PSY X012 Introduction to Psychological Science
- Any other lower level Psychology course within the Psychology inventory
- STA X0XX Any level Statistics course (X000 - X099), including PSY 3204 (Psychological Statistics)
- BSC XXXX General Biology course (or BSC X200, X209, or ZOO X010)

Once declared a Psychology major, continuation in the major requires successful completion of PSY 2012 Introduction to Psychological Science, PSY 3204 Psychological Statistics (or another approved Statistics course), and PSY 3213 Research Methods in Psychology, with at least a grade of C (not C-) and a grade point average for those three courses of 2.5 or higher. PSY 3213, Research Methods, 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. All majors must complete:

#### Minimum Requirements for Majors

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 Director of Advising and students notified of results by email.

Director of Advising decisions may be appealed in writing to the Psychology Departments Undergraduate Program Committee.

Requirements for Psychology Majors
1. Introductory Psychology Requirements (10 credit hours):
   - PSY 2012 Introduction to Psychological Science (3 credit hours)
   - PSY 3204 Psychological Statistics or any approved statistics course (3 credit hours)
   - PSY 3213 Research Methods in Psychology (4 credit hours)

   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 (3 credit hours)
   - PSY 4205 Experimental Design and Analysis (3 credit hours)

3. Two Courses in Cognitive and Neural Sciences (6 credit hours):
   - EXP 4204C Perception (3 credit hours)
   - EXP 4404 Psychology of Learning (3 credit hours)
   - PSB 4004C Physiological Psychology (3 credit hours)
   - EXP 4304 Motivation (3 credit hours)
   - EXP 4680C Cognitive Psychology (3 credit hours)

4. Two Courses in Social/Applied Psychology (6 credit hours):
   - CLP 4143 Abnormal Psychology (3 credit hours)
   - INP 4004 Industrial Psychology (3 credit hours)
   - SOP 4004 Social Psychology (3 credit hours)
   - DEP 4053 Developmental Psychology (3 credit hours)
   - PPE 4003 Personality (3 credit hours)

5. Psychology Elective Courses: If a student took PSY 3204 to meet the statistics requirement, the student must take 3 Psychology Elective courses (9 credit hours). If a student took a different statistics course, the student must take 4 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 (3 credit hours)**
   - GEY 4612 Psychology of Aging (3 credit hours)**
   - CBH 4004 Comparative Psychology (3 credit hours)
   - CLP 4414 Behavior Modification (3 credit hours)
   - SOP 4514 Holocaust Soc. Prejudice (3 credit hours)**
   - SOP 4330 HIV/AIDS (3 credit hours)
   - PSY 4913 Directed Study (1-3 credit hours)-The instructor’s permission is required
   - PSY 4931 Select Topics (3 credit hours)-These are graduate-type seminars designed for advanced undergraduate students. Generally, these courses require the instructor’s permission. See Oasis for current titles.

   **No prerequisite required

Notes:
1. No more than a total of 3 hours of PSY 4913, Directed Study, or PSY 4970, Honors Thesis, (combined) may count
toward the major.
2. PSY 4931, Select Topics, may be repeated 3 times for credit under 3 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.

Requirements for the Minor in Psychology

A minor in Psychology consists of a minimum of 18 credit hours, comprising PSY 2012, any Statistics course or PSY 3213, and any 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 3213. A GPA of 2.00 or better in the minor is required for certification and students must complete at least 8 credit hours toward the minor in residency at USF. 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.

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 Psychology Department 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 3.5 in major coursework, an overall GPA of 3.25 at USF, and, typically, completion of 43 hours in Psychology including PSY 4932, Honors Seminar (6) and PSY 4970, Honors Thesis (6). See the Psychology Department website for details of the program and an application form.

Psychology Faculty


• RELIGIOUS STUDIES (REL) (CIP = 38.0201)

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

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.

Upper-level Requirements and Coursework for the Religious Studies Major

167
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 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 taking Religious Studies as a second major need to complete only 30 credit hours. To do so they must make a written request to the Undergraduate Director at the time they declare their major.

All majors must take:
1. One of the following (only one will count toward Religious Studies requirements)
   a. REL 2300 Introduction to World Religions 4
   b. REL 2306 Contemporary World Religions 4
   c. REL 3308 World Religions 3
2. REL 3003 Introduction to Religious Studies 4
3. REL 3014 Introduction to Major Religious Texts 3
4. REL 4931 Seminar in Religion 3
(Note: eligibility for REL 4931 contingent on successful completion of REL 3003 and REL 3014)
5. Major must complete 22 or 23 additional credit hours that satisfy the following requirements:
   a. Take at least one course from each of the areas (Western Religions, Non-Western Religions, and Issues and Approaches)
   b. Take at least 18 credit hours at the 3000/4000 level, of which a minimum of 9 must be at the 4000 level
   c. It is the prerogative of the Department of Religious Studies to determine whether courses taken at other universities may be applied toward the major at USF. This will be decided as soon as the student becomes a major in the Department of Religious Studies at USF.

The department’s course offerings are sufficiently varied that a student should expect to enroll in its scheduled classes. No more than three directed studies courses may be applied toward the major. Any student who wishes to take any type of directed study, including REL 3900, must have the (written) approval of his/her instructor.

For purposes of the major requirement, religion courses are divided into the following three (3) areas:

**Western traditions (primarily Judaism, Christianity, and Islam)**
REL 2210, 2240, 3120, 3131, 3132, 3280, 3303, 3363, 3367, 3500-3561, 3602, 3607, 3611, 3613, 4133, 4171, 4215, 4217, 4245, 4250, 4252, 4626, 4670

**Non-Western traditions (Religious traditions other than those other Western Tradition)**
REL 3000, 3318, 3330, 3335, 3340, 3380, 4333, 4343, 4344,

**Issues and Approaches**
REL 2164, 3101, 3111, 3114, 3116, 3117, 3140, 3145, 3146, 3170, 3191, 3375, 3391, 3420, 3465, 3801, 4113, 4161, 4177, 4193, 4218, 4939

**Variable Credit Individualized Courses** (Students are limited to six (credit) hours of the following courses)
REL 3900, 4910

**Requirements for the Minor in Religious Studies**

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 transfer. Requests for transfer of credit must be made to the Undergraduate Director in writing when declaring a minor.

All minors must take:
1. REL 3003 Introduction to Religious Studies 4
2. REL 3014 Introduction to Major Religious Texts 3
3. An additional 11 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 3003 Introduction to Religion 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 3.50 or higher in the major.
2. Completion of a USF degree with an overall GPA of 3.25 or higher.
3. Completion of 5 credit hours of “Honors Seminar.” Honors students will take the seminar for 3 credit hours in the Fall and 2 credit hours in the Spring.
4. Completion of 5 credit hours of Thesis/Directed Research for 2 credit hours in the Fall and 3 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) 2
- REL 4911 Undergraduate Research (Honors Thesis) 3
- REL 4937 Selected Topics: Fall Honors Seminar 3
- REL 4938 Selected Topics: Spring Honors Seminar 2

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; Senior Instructors: D. deChant, P. Schneider; Instructor: William Schanbacher; Other Faculty: J. Cavendish, M. Decker.

• SOCIOLOGY (SOC) (CIP = 45.1101)

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
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.

Students should complete two lower level courses with the prefixes of SYD, SYG, SYO or SYP 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-" is the minimum acceptable grade. Students are encouraged to take the following specific courses, if available, during the program of study at the community college, and when feasible in General Education/Gordon Rule courses.

- STA 2122 Social Science Statistics 3
- SYG 2000 Introduction to Sociology 3

**Specific Coursework in the Sociology Major**

The major consists of a minimum of 36 credit hours of Sociology coursework plus ISS 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):

- SYG 2000 Introduction to Sociology (May be replaced with an upper level sociology elective if a total of 12 or more hours of sociology coursework is completed before declaring a Sociology major)
- 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 SYA4910, 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 higher) listed within the area they select. 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**

- **Required Course:** (3 credit hours)
  - SYA 4930 Topics in Sociology: Inequality and Social Justice 3
- **Electives:** (9 credit hours)
  - SYA 4930 Topics in Sociology: Women and Social Justice 3
  - SYD 3700 Racial and Ethnic Relations 3
  - SYA 4800 Gender and Society 3
  - SYO 3530 Social Inequality in a Global Society 3
  - SYP 3060 Sociology of Sexualities 3
  - SYO 4400 Medical Sociology 3
  - SYO 4430 Disability and Society 3
  - SYA 4930 Topics in Sociology: Religion & Immigration 3
  - SYP 3562 Family Violence 3
  - SYD 4238 Immigrants to America 3
  - SYP 3004 Constructing Social Problems 3
  - SYA 4930 Topics in Sociology: Hidden Structures of Social Life 3
  - SYO 3120 Sociology of Families 3
  - SYA 4121 Queer Theory 3
  - SYG 3011 Social Problems Through Film 3
  - SYA 4930 Topics in Sociology: Social Inequality Through Film 3
  - SYA 4930 Topics in Sociology: Sustainable Consumption 3
  - SYA 4930 Topics in Sociology: Elite Deviance 3
  - SYP 4651 Gender, Sport and the Body 3
  - SYO 4250 Sociology of Education 3
  - SYA 4304 Sociological Research Experience 1-3
  - SYA 4910 Independent Research 1-3
  - SYA 49449 Sociological Internship 1-6

**Identity and Community**

- **Required Course:** (3 credit hours)
  - SYP 4111 Identity and Community 3
- **Electives:** (9 credit hours)
  - SYP 4763 Childhood and Youth 3
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

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 and 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 3.00 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 3.00.
4. Successful completion of the Honors Seminar.

Applications for the Undergraduate Honors Program in Sociology are available in the Sociology Department (CPR 209).
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. Unless stated otherwise, a grade of "C-" is the minimum acceptable grade.

Upper-level Coursework for Women’s and Gender Studies Majors

Students must choose a total of 36 credit hours from Women’s 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 only 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 WST as a second major.

I. Required Core Courses (15 hours)

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>WST 3015</td>
<td>Introduction to Women’s Studies</td>
<td>3</td>
</tr>
<tr>
<td>WST 3311</td>
<td>Issues in Feminism</td>
<td>3</td>
</tr>
<tr>
<td>WST 4002</td>
<td>Feminist Research Methods</td>
<td>3</td>
</tr>
<tr>
<td>WST 4522</td>
<td>Classics in Feminist Theory or WST 4561</td>
<td>3</td>
</tr>
<tr>
<td>WST 4935</td>
<td>Capstone/Senior Project</td>
<td>3</td>
</tr>
</tbody>
</table>

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

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 2015 Introduction to Women’s Studies

and one other WST core course.

The other 12 hours may be selected from among departmental offerings and must include a minimum of 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 Emeriti: C. DiPalma, L. L. McAlister, M. Myerson, J. Snook; Professor: D. Price-Herndl; Associate Professors: K. Golombisky, M. Hughes Miller. Affiliate faculty are listed on the Women’s and Gender Studies website at http://wgs.usf.edu.

The 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 (CLS) (CIP = 16.1200)

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

Upper-Level Coursework for the Classics Major
• Requirements for the Major in Classics
  All students who wish to enroll in the Classics Major must schedule an appointment with the Advisor.
• General Requirements for the Major
  The Classics Major requires 10 courses and 30 hours, which are divided between language and civilization requirements.
• Language requirements
  Majors are required to take at least four successive courses in a single language, Latin or Ancient Greek (LAT, LNW, GRE, GRW).
• Civilization Requirements
  Majors are required to take six 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, Religion, and Philosophy, etc., but only with the approval of the Advisor.
Requirements for the Minor in Classics

• General Requirements for the Classics Minor
  The Classics Minor requires 5 courses and 15 hours, which are divided between language and civilization requirements.

• Language requirements
  Minors are required to take at least two successive courses in a single language, Latin or Ancient Greek (LAT, LNW, GRE, GRW).

• Civilization Requirements
  Majors are required to take 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 the junior year, and complete special requirements during the senior year.
  To apply, the candidate must schedule an appointment with the 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 3.5, must submit the Honors Thesis on time, and must pass the scheduled Departmental Honors Examination. Otherwise, the candidate receives no Honors.

• INTERDISCIPLINARY CLASSICAL CIVILIZATIONS (ICC) (CIP = 16.1200)

Requirements for the Major in Interdisciplinary Classical Civilizations (ICC)

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 hrs.). The student must also maintain a 3.5 GPA within the major and a 3.3 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 3
   - CLA 3123 Roman Civilization or CLT 3102 Roman Literature in Translation 3
   - HIS 3930 Greek Archaeology or HIS 3930 Roman Archaeology or REL 3280 Biblical Archaeology 3
   - CLT 3370 Classical Mythology 3
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. 3-4 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 3
   - CLA 3123 Roman Civilization or CLT 3102 Roman Literature in Translation 3
   - HIS 3930 Greek Archaeology or HIS 3930 Roman Archaeology or REL 3280 Biblical Archaeology 3
   - CLT 3370 Classical Mythology 3
2. 12 hours beyond the BA Language Requirement in either Greek or Latin.
   - Competence in one or two ancient languages for 5 semesters of coursework is required. 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.”
      - Either
         - CLA 3103 Greek Civilization 3
         - CLT 3101 Greek Literature in Translation 3
      - Either
         - CLA 3123 Roman Civilization 3
         - CLT 3102 Roman Literature in Translation 3
   2. 3-4 hours from 2000-3000 level courses in Anthropology, History, Philosophy and Religious Studies selected with the guidance and approval of the Coordinator.
   3. 6-8 hours from 3000-4000 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.”
      - Either
         - CLA 3103 Greek Civilization 3
         - CLT 3101 Greek Literature in Translation 3
      - Either
         - CLA 3123 Roman Civilization 3
         - CLT 3102 Roman Literature in Translation 3
CLT 3370 Classical Mythology 3
2. 9-12 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, (4) Religious Studies. Courses are chosen with the guidance and approval of the Coordinator from the list certified for the major.

MODERN LANGUAGES (FRE/GER/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: French, German, Italian, Latin, Modern Greek, Russian, and Spanish. The minor consists of 15 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.

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.

- **Chinese Language Minor (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 (18 credit hours)
  
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>CHI 3240</td>
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</tr>
<tr>
<td>CHI 3420</td>
<td>4</td>
</tr>
<tr>
<td>CHT 3500</td>
<td>3</td>
</tr>
<tr>
<td>CHT 3103</td>
<td>3</td>
</tr>
</tbody>
</table>
  
  (4 hours, choose from the following): CHI3440 Business Chinese (3), CHI4905 Directed Study (1-5 credits), CHI 3470 Overseas Study (1-6 credits), CHI 4930 Selected Topics (1-5 credits)

- **Modern Greek (GRK)**
  
  Required courses for the minor (16 credit hours)
  
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GRK 2220</td>
<td>4</td>
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<tr>
<td>GRK 4905</td>
<td>4</td>
</tr>
<tr>
<td>GRK 2221</td>
<td>4</td>
</tr>
<tr>
<td>GRK 4930</td>
<td>4</td>
</tr>
</tbody>
</table>

- **French (FRE) (CIP = 16.0901)**
  
  Required courses for the major (15 credit hours)
  
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>FRE 3234</td>
<td>3</td>
</tr>
<tr>
<td>FRW 4100</td>
<td>3</td>
</tr>
</tbody>
</table>
French (IFB) with an International Studies and Business Concentration

**Required courses in French for the major (15 credit hours)**
- FRE 2240 (3)
- FRE 3234 (3)
- FRE 3420 (3)
- FRE 3440 (3)
- FRE 3500 (3)

**Supporting courses in French required for the major (9 credit hours)**
Choose from the list below:
- FRE 4421 (3)
- FRE 4700 (3)
- FRE 4930 French for Business II (3)
- FRE 4930 French Phonetics (3)
- FRE 5425 (3)
- FRE 5566 (3)
- FRW 4100 (3)
- FRW 4101 (3)

**Required courses in International Studies (9 credit hours)**
- CPO 2002 (3)
- EUS 3000 (3)
- CPO 4930 Comparative Government & Politics (3)

**Required courses in Business (18 credit hours)**
- ACG 3074 (3)
- ECO 1000 (3)
- MAN 3025 (3)
- MAR 3023 (3)
- FIN 3403 (3)
- Capstone Course (3)

**Supporting courses in Business for the major (6 credit hours)**
Choose any 2 upper-level international business courses.

**Required overseas study courses &/or area studies courses (6 credit hours)**
Select 6 overseas study credit hours or 3 credit hours overseas study plus 3 credit hours area studies courses planned with the advisor.

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**• German (GER) (CIP = 16.0501)**

**Requirements for the major (17 credit hours)**
- GEW 4100 (3)
- GEW 4101 (3)
- GEW 4900 or FLE 4316 (2)

9 hours of 3000, 4000, or 5000 level coursework in German

**Supporting courses required for the major**
15 hours in 2000-5000 level courses with coursework in German (taught in either German or English), including approved courses in related disciplines, planned with an advisor (max of 9 hours German taught in English).

**Required courses for the minor (9 credit hours)**
9 hours of 3000, 4000, or 5000 level coursework in German.

**Supporting courses required for the minor (6 credit hours)**
6 hours of 2000, 3000, 4000, or 5000 level with coursework in German (taught in either German or English, max. 3 hours taught in English, max 3 hours in 2000 level).

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**• Italian (ITA) (CIP = 16.0902)**

**Required courses for the major (15 credit hours)**
- ITA 2240 (3) or ITA 2241
- ITTW 3504 (3)
- ITTW 4100 (3)
- ITT 3420 (3)
- ITT 4101 (3) or ITT 4505 (3)

**Supporting courses required for the major**
17 hours in 3000 or 4000 level courses, including approved courses in related disciplines, planned with the advisor.

**Required courses for the minor (6 credit hours)**
- IT 2240 (3)
- IT 3420 (3)

**Supporting courses required for the minor**
9 hours in 3000 or 4000 level courses except courses in translation.
• **Russian (RUS) (CIP = 16.0402)**

*Required courses for the major (14 credit hours)*
- RUS 3240 (4)
- RUT 3110 (3)
- RUS 4241 (4)
- RUT 3111 (3)

*Supporting courses required for the major*
18 hours in 3000 or 4000 level courses planned with the advisor.

*Required courses for the minor (8 credit hours)*
- RUS 3240 (4)
- RUS 4241 (4)

*Supporting courses required for the minor*
8 hours in 3000 or 4000 level courses.

• **Spanish (SPA) (CIP = 16.0905)**

*Required courses for the major (33 credit hours)*

**Language (6 hours)**
- SPN 3300* Advanced Grammar and Composition (3)
- SPN 4301 Expository Writing (3)

**Literature (9 hours)**
- SPW 3030 Introduction to Hispanic Literature (3)
- One of:
  - SPW 4100 Survey of Spanish Literature I
  - SPW 4101 Survey of Spanish Literature II
- One of:
  - SPW 4130 Survey of Spanish American Literature (3)
  - SPW 4131 Survey of Spanish American Literature II (3)

**Civilization (6 hours)**
- SPN 3500 Spanish Civilization (3)
- SPN 3520 Spanish American Civilization (3)

*Supporting courses required for the major:
Select 12 hours in 3000, 4000 or 5000 level courses with SPN or SPW prefix and may include one course (3 hours) of Spanish/Spanish American Literature in translation. Two of these electives must be at the 4000 level. All electives must be approved by department advisor prior to enrollment.

*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.

*Required courses for the minor (18 credit hours)*
- SPN 3300* Advanced Grammar and Composition (3)
- SPN 4301 Expository Writing (3)

*Supporting courses required for the minor*
12 hours in 3000, 4000 or 5000 level courses with SPN or SPW prefix; may include one course (3 hours) of Spanish/Spanish American Literature in translation. Two of these courses must be at the 4000 level. All electives must be approved by department advisor prior to enrollment.

*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.

**Spanish (ISB) with an international studies and business concentration**

*Required courses in Spanish for the major (18 credit hours)*
- SPN 3330 (3)
- SPN 3520 (3)
- SPN 3440 (3)
- SPN 4301 (3)*
- SPN 3441 (3)
- SPN 4410 (3)
- SPN 3500 (3)
- SPN 3550 (3)

*SPN 3300 is the prerequisite to SPN 4301. 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.

*Required courses in Spanish required for the major (6 credit hours)*
Choose from the list below:
- SPN 2340 (3)
- SPN 4700 (3)
- SPW XXXX (3)
- SPN 2341 (3)
- SPN 4700 (3)
- SPW 4130 (3)
- SPW 3030 (3)

*Required courses in International Studies (9 credit hours)*
- CPO 2002 (3)
- INR 1015 (3)
CPO 4930 Comparative Government & Politics (3)

**Required courses in Business (18 credit hours)**

- ACG 3074 (3)
- ECO 1000 (3)
- MAN 3025 (3)
- MAR 3023 (3)
- FIN 3403 (3)

**Supporting courses in Business for the major (6 credit hours)**

Choose any 2 upper-level international business courses.

**Required overseas study courses and/or area studies courses (6 credit hours)**

Select 6 overseas study credit hours or 3 credit hours overseas study plus 3 credit hours area studies courses planned with the advisor.

### TRACK IN INTERNATIONAL STUDIES (LATIN AMERICA) WITH A LANGUAGE (SPANISH) & BUSINESS CONCENTRATION

**Required International Studies courses (15 credit hours)**

- CPO 2002 (3)
- CPO 4930 (3)
- INR 2002 (3)
- INR 1015 (3)
- INR 3038 (3)

**International Studies electives (3 credit hours)**

- Choose from the list below:
  - INR 3018 (3)
  - INR 3202 (3)
  - POT 4109 (3)

**Required courses in Spanish (12 credit hours)**

- SPN 3440 (3)
- SPN 3500 (3)
- SPN 3520 (3)

**or**

- SPN 4301 (3)
- SPN 3341 (3)

**Required courses in Business for the major (18 credit hours)**

- ACG 3074 (3)
- ECO 1000 (3)
- MAN 3025 (3)
- MAR 3023 (3)
- FIN 3403 (3)
- Capstone Course (3)

**Supporting courses in Business for the major (6 credit hours)**

Choose any two upper-level international business courses

**Required overseas study courses & area studies courses (9 credit hours)**

Select 3 overseas study credit hours or 3 credit hours overseas plus 6 credits area studies planned with an advisor (2 courses from International Studies or other departments).

### World Languages Faculty

STUDENT ORGANIZATIONS IN THE COLLEGE OF ARTS AND SCIENCES

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 - To enhance the students’ knowledge of chemistry and chemistry related fields. For further information please call (813) 974-2144, CHE 205.

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 - To promote and develop the application of economic concepts within the student body and provide a social basis for interaction. For further information visit BSN 3432 or call (813) 974-4252.

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
German 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.

Humanities & Cultural Studies Organization
The Humanities and Cultural Studies Organization (HCSO) provides numerous opportunities and services to USF students as well as to our surrounding community. HCSO works to develop advantageous academic and social opportunities, such as developing better relationships between students and professors within the department, offering students a chance to share their ideas for the department with the staff, and educating other university students and the community about what the humanities and cultural studies are all about, in hopes of further growing the department and its abilities. HCSO also provides a number of extracurricular cultural, learning, and social activities such as hosting guest speakers and lecturers including professors, authors, and artists, setting up study groups to help students prepare for exams and better retain course material, attending and arranging cultural activities, and participating in community service. As a whole, through educational, practical, and fun events, HCSO 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.

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.

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.cas.usf.edu/history.

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.

**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.

**Student Broadcasting Association** - To give students with an interest in television/radio journalism hands-on experience and the opportunity to produce a news program for public access television. For further information please go to CIS 3005.

**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 and Language-Speech-Hearing Disorders; Criminology, Gerontology, Long-Term Care Administration, Behavioral Healthcare, and Social Work. Minors are offered in American Sign Language, Behavioral Healthcare, Criminology, 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, Aural Habilitation/Deaf Education, Criminal Justice Administration, Criminology, Gerontology, Rehabilitation & Mental Health Counseling, Social Work, and Speech-Language Pathology.

Doctoral programs are offered in Aging Studies, Audiology, Communication Sciences & 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/Undergraduate.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 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
   - Three (3) hours credit in Writing Intensive category
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, Behavioral Healthcare, Criminology, and Gerontology.

The following restrictions apply to students earning a minor: (a) students may not use courses in the major for the minor, unless approved by the department offering the minor; and (b) ISS majors may not earn a minor in any of the cognate areas incorporated in their contracts. 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 College of Behavioral & Community Sciences (CBCS) offers a planned sequence of courses to support student development as undergraduate researchers, to prepare them for graduate school, and to encourage them to consider research careers. The Undergraduate Research Certificate is open to all students who declare a major or a minor in CBCS as well as to all students in the Honors College. Students 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. Required courses include:

- Introduction to Research (IDS 1505: 1 hour)
- Social Science Statistics (STA 2122 or equivalent: 3 hours)
- Research Methods (PSY 3213; CCJ 3701; GEY 4401; SOW 3401 or equivalent: 3 hours)
- Advanced Research Methods in Behavioral & Community Sciences (MHS 4741: 3 hours)
- Writing for Research and Publication (MHS 4731: 3 hours) also fulfills intensive writing exit requirement
- Directed Research or Thesis (3 – 6 hours)

Contact Ms. Beatrice Smith for additional information: bsmith@bcs.usf.edu.

- COMMUNICATION SCIENCES AND DISORDERS (CSD) (CIP = 51.0204)

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 the Ph.D. in Communication Sciences and Disorders.

Concentrations in Communication Sciences and Disorders

State-Mandated Common Prerequisites (See concentration for minimum grade requirement.)

- PSY 2012 Psychological Science I (or equivalent)
- STA 2122 Social Sciences Statistics (or equivalent)
- BSC 2093 Human Anatomy & Physiology I (or equivalent)
- PHY 2020 Conceptual Physics (or equivalent)
LSH Concentration

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.)

ITT and DST Concentrations

State-mandated prerequisite courses must be completed with a grade of C- or better prior to the first semester in which courses are taken in the major.

Requirements for the Concentration in Interpreter Training Concentration (ITT)

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 48 credit hours (33 Core Credits and 15 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. A student may demonstrate partial proficiency through the successful completion of a standardized ASL competency test such as the Sign Communication Proficiency test or by holding national certification from the Registry of Interpreters for the Deaf (RID), Florida State qualification-QA3 or EIE3 or other state credential with departmental approval. Please contact the CSD Undergraduate Advising office if you wish to request the competency examination or have your credentials reviewed.

ITT Prerequisites (Minimum grade of B- or higher required for each course):

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASL 2140C</td>
<td>Basic American Sign Language</td>
<td>4</td>
</tr>
<tr>
<td>ASL 2150C</td>
<td>Intermediate American Sign Language</td>
<td>4</td>
</tr>
<tr>
<td>ASL 4161C</td>
<td>Advanced American Sign Language</td>
<td>4</td>
</tr>
<tr>
<td>ASL 4201C</td>
<td>American Sign Language IV</td>
<td>4</td>
</tr>
<tr>
<td>ASL 4301C</td>
<td>Structure of Sign Language</td>
<td>4</td>
</tr>
</tbody>
</table>

Core Classes (34 hours):

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>INT 3270</td>
<td>Interpreting Process and Skill Development</td>
<td>4</td>
</tr>
<tr>
<td>INT 3112</td>
<td>Translation from English and from ASL</td>
<td>4</td>
</tr>
<tr>
<td>INT 3004</td>
<td>Fundamentals of Interpreting</td>
<td>4</td>
</tr>
<tr>
<td>ASL 3324</td>
<td>Advanced ASL Discourse</td>
<td>4</td>
</tr>
<tr>
<td>INT 3205</td>
<td>Interpreting I</td>
<td>4</td>
</tr>
<tr>
<td>ASL 3514</td>
<td>American Deaf Culture</td>
<td>3</td>
</tr>
<tr>
<td>INT 4206</td>
<td>Interpreting II</td>
<td>4</td>
</tr>
<tr>
<td>INT 4944</td>
<td>Practicum</td>
<td>3</td>
</tr>
<tr>
<td>INT 4190</td>
<td>Senior Seminar</td>
<td>3</td>
</tr>
<tr>
<td>SPA 4962</td>
<td>Undergraduate Comprehensive Exam</td>
<td>1</td>
</tr>
</tbody>
</table>

Required Elective (3 hours) [choose 1 of the following]:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPA 3261</td>
<td>Language Science for CSD</td>
<td>3</td>
</tr>
<tr>
<td>SPA 3004</td>
<td>Language Development and Disorders</td>
<td>3</td>
</tr>
<tr>
<td>INT 4490</td>
<td>Intro to Cued Speech &amp; Its Applications</td>
<td>3</td>
</tr>
<tr>
<td>SPA 3470</td>
<td>Culture and Diversity in CSD</td>
<td>3</td>
</tr>
</tbody>
</table>

Electives (11-12 hours): Consult with an advisor for INT/ASL/SPA elective options.

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 (NRID) written examination.

Requirements for the Concentration in Language-Speech-Hearing (LSH)

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.
Required Courses (45 semester hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPA 3002</td>
<td>Introduction to Disorders of Speech and Language</td>
<td>3</td>
</tr>
<tr>
<td>SPA 3030</td>
<td>Introduction to Hearing Science</td>
<td>3</td>
</tr>
<tr>
<td>SPA 3101</td>
<td>Anatomy and Physiology of the Speech and Hearing Mechanism</td>
<td>3</td>
</tr>
<tr>
<td>SPA 3112</td>
<td>Applied Phonetics in Communication Sciences &amp; Disorders</td>
<td>3</td>
</tr>
<tr>
<td>SPA 3004</td>
<td>Introduction to Language Development and Disorders</td>
<td>3</td>
</tr>
<tr>
<td>SPA 3011</td>
<td>Introduction to Speech Science</td>
<td>3</td>
</tr>
<tr>
<td>SPA 3310</td>
<td>Introduction to Disorders of Hearing</td>
<td>3</td>
</tr>
<tr>
<td>SPA 3261</td>
<td>Language Science for Communication Sciences &amp; Disorders</td>
<td>3</td>
</tr>
<tr>
<td>SPA 4104</td>
<td>Neuroanatomy for Speech, Language and Hearing</td>
<td>3</td>
</tr>
<tr>
<td>SPA 4xxx</td>
<td>SPA elective (consult with an advisor for approval)</td>
<td>3</td>
</tr>
<tr>
<td>SPA 4321</td>
<td>Introduction to Audiologic Rehabilitation</td>
<td>3</td>
</tr>
<tr>
<td>SPA 4050</td>
<td>Introduction to the Clinical Process [Capstone course]</td>
<td>3</td>
</tr>
<tr>
<td>SPA 4250</td>
<td>Introduction to Speech Disorders</td>
<td>3</td>
</tr>
<tr>
<td>SPA 4257</td>
<td>Adult Communication Disorders</td>
<td>3</td>
</tr>
<tr>
<td>SPA 4510</td>
<td>Introduction to Clinical Methods and Counseling in CSD</td>
<td>3</td>
</tr>
</tbody>
</table>

Effective July 1989, the academic requirements for employment in the public school system for Speech-Language Pathologists is the 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 prerequisites. Any student who receives a grade of "D" or lower in more than two USF Communication Sciences and Disorders courses will be automatically barred from continuing as an undergraduate major in CSD. Grade forgiveness may be used for two courses only and may be used only for course work 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 Deaf Studies (DST)

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. 14 credits in foundational coursework,
2. 12 credits in American Sign Language proficiency coursework, and
3. A minimum of 15 credits of elective coursework, 9 of which must come from a single elective area.

The following courses are required for the major:

Required Courses (26 credits)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPA 4321</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>ASL 2140C</td>
<td></td>
<td>4</td>
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<tr>
<td>ASL 3514</td>
<td></td>
<td>4</td>
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<tr>
<td>ASL 2150C</td>
<td></td>
<td>4</td>
</tr>
<tr>
<td>SPA 3470</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>ASL 4161C</td>
<td></td>
<td>4</td>
</tr>
<tr>
<td>INT 3004</td>
<td></td>
<td>4</td>
</tr>
<tr>
<td>Other electives</td>
<td></td>
<td>15</td>
</tr>
</tbody>
</table>

A minimum of 15 hours are required, with at least 9 credits in one of the following areas:

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 3112C

Area 3: Manual/Visual Communication
- INT 4490, ASL 4201, ASL 4301C, INT 3270, ASL 3324

186
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 the A.A. degree at the community college. Some courses required for the LSH or ITT concentrations 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

Required courses:
- 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 12 hours of minor courses at USF. A 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)

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.
Requirements for the Major in Criminology

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” or higher is required in CCJ 3117 to enroll in CCJ 3701.
   - CCJ 3701 3 Note: A grade of “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 take CCJ 3117 prior to enrollment in CCJ 3701.
   - 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

Any student who receives a grade of “D” or lower in more than one USF Criminology major course will be automatically barred from continuing as Criminology major.

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.

There are no State Mandated Common Prerequisites for this degree program.

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 with a major in Criminology 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

A minimum of 18 hours is required of all undergraduate minors in Criminology including:

1. Two required courses:
   - CCJ 3024 3
   - CCJ 3117 3

2. 12 semester hours of electives within Criminology.
   - Note: Because all courses are scheduled for majors only, students will be required to obtain approval for all criminology courses each semester with the exception of CCJ 3024 and CCJ 3014. This can be accomplished by emailing the USF student ID number and reference numbers to the advising office. Upon receipt of the email, students will be registered for courses. A minimum of 9 semester hours must be completed at USF.
   - Students minoring in Criminology are subject to the Department’s “D” Rule.

Criminology Faculty

Interim Chairperson: M. Leiber
Associate Professors: L. Fridell, S. Jones, W. Palacios, C. Sellers
Assistant Professors: L. Boggess, A. Cohn, W. Jennings, O. J. Mitchell
Professor Emeritus: W. R. Blount, M. Bromley, J.T. Reilly, M. Silverman, L. Territo, M. Vega
Courtesy Appointment: W. Borum.

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)**

  **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**

  Those students seeking the Bachelor’s degree in Gerontology, 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. A grade of “C” is the minimum acceptable grade. 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:**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEY 2000</td>
<td>Introduction to Gerontology</td>
<td>3</td>
</tr>
<tr>
<td>GEY 3601</td>
<td>Physical Changes and Aging</td>
<td>3</td>
</tr>
<tr>
<td>GEY 3625</td>
<td>Sociological Aspects of Aging</td>
<td>3</td>
</tr>
<tr>
<td>GEY 4401</td>
<td>Research Methods in Gerontology</td>
<td>3</td>
</tr>
<tr>
<td>GEY 4612</td>
<td>Psychology of Aging</td>
<td>3</td>
</tr>
<tr>
<td>GEY 4945</td>
<td>Field Placement OR GEY 4690 Senior Seminar in Gerontology OR GEY 4917 Directed Research</td>
<td>3</td>
</tr>
</tbody>
</table>

  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.

- **LONG TERM CARE ADMINISTRATION (LTC) (CIP=51.0701)**

  **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” 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.

**Pre-Major Courses:**
- GEY 2000 Introduction to Gerontology 3
- MAN 3025 Principles of Management 3

**Required Major Courses:**
- GEY 3601 Physical Changes and Aging 3
- GEY 4327 Understanding Policies and Practices of Long Term Care 3
- GEY 4328 Health Care Operations 3
- GEY 4329 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 4935 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 B.A. or the B.S. option should contact the School of Aging Studies as early as possible in their careers at the University of South Florida.

**Requirements for the Minor in Gerontology**

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:

Required:
- GEY 2000 Introduction to Gerontology 3

Required: 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**

• REHABILITATION & MENTAL HEALTH COUNSELING (REF)

Five Year Master’s Program

(Not currently admitting students - under administrative review)

A five-year master’s program is available to undergraduates where an M.A. degree in Rehabilitation and Mental Health Counseling and a bachelor’s degree in another major can be earned in a total program of 150 semester hours. An undergraduate major is required. Students admitted through the five-year program (REF) must have completed 90 semester hours of work and have satisfied Foundations of Knowledge and Learning Core Curriculum and Board of Governor’s Regulation 6.017 requirements. Minimum admission requirements include a “B” average or above over the last 60 semester hours. All applicants must take the GRE whether or not they have a 3.0 grade-point average. A detailed description of the M.A. program in Rehabilitation and Mental Health Counseling may be found in the Graduate Catalog and on the Internet at [http://rmhc.cbcs.usf.edu/](http://rmhc.cbcs.usf.edu/).

Undergraduates interested in the five-year program (REF) should contact the Department at the start of their junior year. Applications for the five-year program are available from the Department. GRE scores and three letters of recommendation must be received before any application is processed.

Mission Statement

The mission of the Department of Rehabilitation and Mental Health Counseling is to promote quality services for individuals with differences in abilities and to help the state meet its human service needs in the areas of rehabilitation and mental health through teaching, research and service.

Objectives

1. To provide students with a sound knowledge of the basic philosophical tenets and relevant historical foundations of rehabilitation and mental health counseling, and to prepare master’s level rehabilitation and mental health counselors who adhere to ethical principles, including the belief in human dignity and the right of all individuals to fully participate in society.

2. To prepare master’s level rehabilitation and mental health counselors to be critical consumers of information and to encourage participation in and contribution to the expansion of knowledge in the fields of rehabilitation and mental health counseling.

3. To encourage the professional growth and development of master’s level rehabilitation and mental health counselors through the promotion of on-going involvement in the rehabilitation community at the local, state, and national levels, and to promote advocacy on behalf of people with differences in abilities.

Rehabilitation counselors work in a wide variety of settings, including public and private rehabilitation programs and facilities, mental health treatment settings, and substance abuse treatment settings. Some establish their own private rehabilitation or mental health counseling practices.

Rehabilitation and Mental Health Counseling have roots in both the national rehabilitation movement and professional counseling movement. Training, which includes experiential learning, emphasizes psychological, social, medical, and vocational aspects of disability; and also the development and refinement of personal adjustment and mental health counseling skills. Graduates with an M.A. degree from the USF Department of Rehabilitation and Mental Health Counseling are prepared for careers as both rehabilitation and mental health counselors.

The graduate program in Rehabilitation and Mental Health Counseling is fully accredited by the Council on Rehabilitation Education (CORE), the national accrediting body for rehabilitation counselor training programs. Upon completion of 75 percent of the program, graduates are eligible to sit for the national certification examination of the Commission on Rehabilitation Counselor Certification. After passing this examination and completing the master’s program, the graduate is registered with the Commission as a Certified Rehabilitation Counselor (CRC). Within the 60 hour M.A. program, graduates also meet Florida’s educational standards for licensure as a Clinical Mental Health Counselor. The Department offers four graduate certificate programs: (1) Addictions and Substance Abuse Counseling; (2) Marriage and Family Therapy; (3) Rehabilitation Technology; and (4) Behavioral Health Counseling. Each student may elect to pursue a program of specialization in either area. The Addictions and Substance Abuse Counseling program is approved by the Certification Board for Addictions Professionals of Florida (CBAPF Approved Provider #179A). Several courses within the program have prerequisites. Please contact the Department at (813) 974-2855 for specific details about these requirements.

Rehabilitation and Mental Health Counseling Faculty

Chairperson: T. J. Wright; Associate Professors: C. Dixon, W. Kearns, R. Weinberg, T. J. Wright; Assistant Professors: C. Dillahunt-Aspillaga, J. Reid, T. Smith; Instructor and Field Placement Coordinator: G. DuDell; Visiting Assistant Professor: R. G. Henry.

• SOCIAL WORK (SOK) (CIP = 44.0701)
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. 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 be 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.

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:
  - American Government
    - POS x041 or POS x042 or PUP x099
  - Human Biology
    - BSC x005 or BSC x085 or BSC x010 or PCB x099
  - Economics
    - ECO x000 or ECO x023
Psychology
PSY x012 or PSY x020
Sociology
SYG x000 or SYG x010

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 (3)
Human Biology
BSC 1005 Biology for Life (or BSC 1020 Human Biology or BSC 2085 Anatomy & Physiology) (3)
Economics
ECO 1000 Basic Economics (or ECO 2023 Microeconomics or ECO 2013 Macroeconomics) (3)
Psychology
PSY 2012 Introduction to Psychological Science (3)
Sociology
SYG 2000 Introductory Sociology (or SYG 2010 Contemporary Social Problems) (3)

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:

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Foundation Courses</td>
<td>6</td>
</tr>
<tr>
<td>Core Courses</td>
<td>29</td>
</tr>
<tr>
<td>Field Experience</td>
<td>9</td>
</tr>
<tr>
<td>TOTAL</td>
<td>44</td>
</tr>
</tbody>
</table>

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-Paglicci, A. Strozier; Assistant Professors: J. Carrion, M. Joshi, D Kondrat, N.S. Park, G. Rahill, A. Salloum; Instructor: R. Tilden; Visiting Faculty: L. Rogovin, A. Stintson; Coordinator IVE: L. Conforti-Brown; Advisor: A. Weisz.

Department of Mental Health Law & Policy

The mission of the department of Mental Health Law and Policy (MHLP) is to promote the health and quality of life of people with mental and substance use disorders by creating, evaluating, disseminating and translating state-of-the-art knowledge to support effective practice across behavioral health and criminal justice systems. MHLP is a department within the Louis de la Parte Florida Mental Health Institute. MHLP offers an undergraduate minor in Behavioral Healthcare (see listing below) and provides research experiences for students.

- Behavioral Healthcare (BHC) (CIP = 44.0000)

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

There are no state mandated common prerequisites for this major.

Recommended Prerequisites

It is strongly recommended that those students seeking the Bachelor’s degree in Behavioral Healthcare complete a Statistics course (STA XXXX), an introductory Psychology course (PSY x012) and a Sociology course (SYG x000 or SYG x010) at the lower level prior to entering the university. (These courses may also be used to fulfill FKL requirements for entering freshmen.)

Requirements for the B.S. Major in Behavioral Healthcare

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]:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>*MHS 3411</td>
<td>Multidisciplinary Behavioral Healthcare</td>
<td>3</td>
</tr>
<tr>
<td>PSY 3213</td>
<td>Research Methods in Psychology</td>
<td>4</td>
</tr>
<tr>
<td>MHS 4022</td>
<td>Adult Psychopathology in the Community</td>
<td>3</td>
</tr>
<tr>
<td>or MHS 4490</td>
<td>Behavioral Healthcare Issues for Children</td>
<td></td>
</tr>
<tr>
<td>MHS 4408</td>
<td>Exemplary Practices in Behavioral Healthcare Treatment</td>
<td>3</td>
</tr>
<tr>
<td>MHS 4002</td>
<td>Behavioral Health Systems Delivery</td>
<td>3</td>
</tr>
<tr>
<td>MHS 4452</td>
<td>Co-occurring Disorders</td>
<td>3</td>
</tr>
<tr>
<td>MHS 4703</td>
<td>Legal, Ethical &amp; Professional Issues in BHC</td>
<td>3</td>
</tr>
</tbody>
</table>

*MHS 3411 should be taken during student’s first semester of major coursework; a minimum grade of “B-“ is required.
Concentration: (Students must choose one of the following concentrations [15 semester hours])

Concentration #1-Adult Community Services
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
Plus Department approved elective [consult with advisor for options]  3

Concentration #2-Behavioral Health Research
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  3
or
CLP  4414  Behavior Modification or equivalent with Department approval  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

RCS  4033  Overview of Rehabilitation and Mental Health Counseling Professions  3
MHS  3204  Fundamentals of Applied Behavior Analysis  3
or
CLP  4414  Behavior Modification or equivalent with Department approval  3
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

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
COLLEGE OF BEHAVIORAL AND COMMUNITY SCIENCES
UNIVERSITY OF SOUTH FLORIDA 2012-2013 UNDERGRADUATE CATALOG

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MHS 4408</td>
<td>Exemplary Practices in Behavioral Healthcare Treatment</td>
<td>3</td>
</tr>
<tr>
<td>MHS 4425</td>
<td>Field Experience in Behavioral Healthcare*</td>
<td>3</td>
</tr>
</tbody>
</table>

**Electives (minimum of 3 credit hours required):**

- MHS 4931 Selected Topics in Behavioral Healthcare** 1-4
- MHS 4906 Directed Study 1-4

*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 elective from the above list. Enrollment in MHS 4425 requires prior approval by the Behavioral Healthcare advisor.

**Topics covered include among others: Psychology and the Law (3), Behavioral Health Issues in Children (3), Behavioral Health Issues in Elders (3).

### Other Behavioral Healthcare Options

A concentration in Behavioral Healthcare is offered through the Bachelor of Science in Applied Science (BS/AS) degree program as well as the Bachelor of General Studies (BGS). The concentration requires eighteen (18) credits from the courses listed for the minor.

Please see the B.S. in Applied Science at [http://www.ugs.usf.edu/academic/bsas.htm](http://www.ugs.usf.edu/academic/bsas.htm) and BGS at [http://www.usf4you.usf.edu/programs/bachelorsBGS.asp](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. The cognate requires twelve (12) credits from the courses listed for the Behavioral Healthcare minor. MHC 4425 is not required to complete the cognate for the ISS major.

### 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 Louis de la Parte Florida Mental Health Institute. CFS offers an undergraduate minor in Applied Behavior Analysis (ABA) as well as a master’s 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 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 3
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 1-4 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 2.50 on all college-level work and a minimum of 2.00 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 through USF’s course management system (i.e., BlackBoard) each fall as to the minimum entrance GPA required for the following fall semester.
   c. Completion of the following State Mandated Common Prerequisites (or equivalents) with a grade of C- or higher in each course and an overall 2.00 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. Students working toward meeting the limited access criteria will be permitted to enroll in all foundation courses in Business (listed below) except GEB 4890, provided they have completed 60 semester hours, a minimum of 2.40 overall GPA, and have met course prerequisites.

3. A minimum score of 550 on paper and pencil or 213 on computerized TOEFL is required, when applicable.

4. 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.

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 2.00 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)

1. General Education Requirements*
   a. English Composition 6
   b. Mathematics and Quantitative Reasoning (Calculus is required) 6
   c. Natural Sciences 6
   d. Social and Behavioral Sciences 6
   e. Human Cultural Diversity Global Context 3
   f. Fine Arts 3
   g. Humanities 3
   **Total 36**

2. Exit Course Requirements
   a. The Capstone Course 3
   b. The Writing Intensive Course 3
   **Total 6**

   *See Exit Requirements for more details

3. Speech/Writing Requirements for Business Majors
   a. SPC 2608 Public Speaking or COM 3110 Communication for Business and the Professions 3
   b. ENC 3250 Professional Writing or ENC 3310 Expository Writing or equivalent 3
   **Total 6**

4. Additional elective credits
   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
2.00 GPA
* ACG 2021 Principles of Financial Accounting 3
* ACG 2071 Principles of Managerial Accounting 3
ECO 2013 Economic Principles: Macroeconomics 3
ECO 2023 Economic Principles: Microeconomics 3
QMB 2100 Business & Economic Statistics I 3
BUL 3320 Law and Business I 3
FIN 3403 Principles of Finance 3
** ISM 3011 Information Systems in Organizations 3
QMB 3200 Business & Economic Statistics II 3
MAN 3025 Principles of Management 3
*** MAR 3023 Basic Marketing 3
GEB 4890 Strategic Management/Decision Making 3
Total 36

2. Major Requirements (specific courses for each major are listed in the “Departments and Programs” section below.) 18-27
3. Business Electives:
   CGS 2100* 3
   FIN/MKT majors only 3
Minimum Business Credits 60-66
* Accounting majors must earn C not C- in ACG 2021 & 2071
** Information Systems (ISM) majors must earn C not C- in ISM 3011
*** 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)
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 2.00 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 (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.

1. The course requirements are as follows:

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACG 2021 Principles of Financial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>ACG 2071 Principles of Managerial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>ECO 1000 Basic Economics**</td>
<td>3</td>
</tr>
<tr>
<td>FIN 3403 Principles of Finance</td>
<td>3</td>
</tr>
<tr>
<td>MAN 3025 Principles of Management</td>
<td>3</td>
</tr>
<tr>
<td>MKT 3023 Basic Marketing</td>
<td>3</td>
</tr>
<tr>
<td>MAN 4802 Entrepreneurship &amp; Small Business Management</td>
<td>3</td>
</tr>
</tbody>
</table>

   Total: 21

2. A grade point average of 2.00 or better must be achieved in the minor course work at USF and in all minor courses completed at other institutions.

3. 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)**

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 on becoming a Florida CPA, go to the following links:

http://www.myfloridalicense.com/dbpr/cpa/licensure.html and

http://www.ficpa.org/Content/FutureCPAs/BecomeCPA.aspx.

**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) at least a 70 percent score on a principles of financial accounting (ACG 2021 material only) "competency exam" prior to taking any ACG or TAX course at the 3000 level or higher and (2) successful completion of ACG 3103 (intermediate I) with a minimum grade of C, not C- on 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 70 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 70 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 COB 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 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 the upper level accounting requirement in residency at USF Tampa. Finally, students must earn a 2.00 GPA on all major coursework at USF Tampa and have an overall 2.00 GPA.
major GPA including any applicable transfer work.

Required Accounting Courses:
- ACG 3103 Intermediate Financial Accounting I 3
- ACG 3113 Intermediate Financial Accounting II 3
- ACG 3341 Cost Accounting and Control I 3
- ACG 3401 Accounting Information Systems 3
- ACG 4632 Auditing I 3
- TAX 4001 Concepts of Federal Income Taxation 3

Electives (6 hours selected from):
- ACG 4123 Intermediate Financial Accounting III 3
- ACG 4351 Cost Accounting and Control II 3
- ACG 4642 Auditing II 3
- ACG 4931 Selected Topics 3
- ACG 5205 Advanced Financial Accounting 3
- ACG 5505 Governmental/Not-for-Profit Accounting 3
- ACG 5675 Internal and Operational Auditing 3
- TAX 5015 Federal Taxation of Business Entities 3

Total Required Hours 24

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 (for Business Majors Only)
Students majoring in Business may minor in Accounting. The requirements are:
1. ACG 3103 Intermediate Financial Accounting I 3
2. A grade of “C” (not C-) or better must be earned in each of the four upper-level accounting courses taken. A grade point average of 2.00 or higher must be achieved in all minor course work. All attempts will be included in the GPA unless grade forgiveness has been used. Only one grade forgiveness may be used in the minor.
3. All 12 credit hours must be taken in residence at USF - Tampa.

Accounting Faculty

• ECONOMICS (ECN) (CIP = 52.0601)
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 beyond the foundation courses for business.
Required Economics Courses:

ECO 3101 Intermediate Price Theory 3
ECO 3203 Intermediate Macroeconomics 3
15 hours of upper level economics courses 15
ECO 4935 Special Topics: Exit Requirement in Economics 1

Total 22

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, QMB3200 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 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

All students, regardless of college can earn a minor in Economics by satisfactorily completing 18 hours in Economics. The requirements are:

1. ECO 2013 Economic Principles: Macroeconomics 3
   ECO 2023 Economic Principles: Microeconomics 3
   Upper-level economics electives (may include QMB 3200) 12
   **Total Economics Hours** 18

Business majors can obtain a minor with 9 additional upper-level hours in economics beyond the foundation requirements for Business.

2. Before being recognized as a minor in Economics, a student must obtain program approval from the Economics Department Undergraduate Advisor.
3. A grade point average of 2.00 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.
4. At least 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.

Beyond ECO 2013 Economic Principles: Macroeconomics and ECO 2023 Economic Principles: Microeconomics, students should select ECP 4451 Law and Economics, ECP 3413 Economics of Regulation and Antitrust and ECP
4505 Economics of Crime. Additional courses of interest are ECO 4504 Public Finance, ECP 3530 Economics of Health, ECP 3302 Environmental Economics, ECP 3203 Labor Economics, and ECP 3201 Economics of Women and Work.

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)

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 applied and theoretical 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 2.00 or higher must be achieved in all major course work at USF and an overall 2.00 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:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>FIN 4303</td>
<td>Financial Institutions and Markets</td>
<td>3</td>
</tr>
<tr>
<td>FIN 4414</td>
<td>Advanced Corporation Finance</td>
<td>3</td>
</tr>
<tr>
<td>FIN 4504</td>
<td>Principles of Investments</td>
<td>3</td>
</tr>
<tr>
<td>FIN 4443</td>
<td>Financial Policies and Strategies*</td>
<td>3</td>
</tr>
<tr>
<td>Additional upper-level Finance electives</td>
<td>6-12</td>
<td></td>
</tr>
</tbody>
</table>

Total 18-24

*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 (for Business Majors only)**

Students majoring in Business may minor in Finance. The requirements are:

1. FIN 4504 Principles of Investments 3
2. FIN 4303 Financial Institutions and Markets 3
3. FIN 4414 Advanced Corporation Finance 3
4. FIN 4443 Financial Policies and Strategies* 3
5. **Total Finance Hours** 12

*FIN 4443 is capstone course that should be taken in the final semester of the minor (or as close as possible).

2. A grade point average of 2.00 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.

3. At least 9 of the required 12 credit hours must be taken in residence at USF - Tampa.

**Finance Faculty**

• **MANAGEMENT INFORMATION SYSTEMS (ISM) (CIP = 52.1201)**

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 2.00 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 2.00 or higher must be achieved in all major course work at USF and an overall 2.00 GPA including transfer work.

Required MIS Courses:
- ISM 3232 Business Application Development* 3
ISM 3113 Systems Analysis and Design* 3
ISM 3431 Operations and supply chain processes 3
ISM 4212 Database Administration 3
ISM 4220 Business Data Communications 3
ISM 4300 Managing Information Resources 3
Plus Approved MIS Electives** 9
Total Hours Required for B.A./B.S. Degree 27

*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 (for Business majors only)

Students majoring in Business may minor in MIS. The requirements are:

1. ISM 3113 Systems Analysis and Design 3
2. ISM 4212 Database Administration 3
3. Approved MIS Elective 6
Total MIS hours 12

2. A grade point average of 2.00 or better must be achieved in the minor course work at USF and in all minor courses completed at other institutions.
3. At least 9 hours of the required 12 credit hours must be taken in residence at USF Tampa.

Accelerated BS/MS 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 wherever 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:

- 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 3
ISM 3113 3
Additional UG Courses 9
ISM 4212 3
ISM 4220 3
Additional UG Courses 9

Fourth Year (Student accepted in M.S./MIS Program)
ISM 6436 3
UG Courses 12
ISM 4300 (B.S. Capstone) 3
ISM 6124 3
UG Courses or Graduate Electives 6

Fifth Year
ISM 6225 3
ISM 6218 3
Graduate Electives 6
ISM 6155 (M.S. Capstone) 3
Graduate Electives 12

The following courses are suggested specialization elective courses and are cross-listed between the graduate and undergraduate catalogs:
ISM 6145/4930 Software Testing
ISM 6156/4153 Enterprise Resource Planning
ISM 6328/4323 Information Security and Risk Management
ISM 6930/4930 Mainframe Technologies
ISM 6316/4930 Project Management

For further course information, visit: http://www.ugs.usf.edu/sab/sabs.cfm

Information Systems & Decision Sciences Faculty


• MANAGEMENT (MAN) (CIP = 52.1201)

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 2.00 or higher must be achieved in all major course work at USF and an overall 2.00 GPA including transfer work.

Required Management Courses:
- MAN 3240 Organizational Behavior Analysis 3
- MAN 3301 Human Resource Management 3
- MAN 4282 Organizational Assessment 3
- MAN 4737 Integrated Management Applications 3
- Plus 9 hours of other upper-level Management courses 9
- Total 21

Requirements for a Minor in Management (for Business Majors Only)
Students majoring in Business may minor in Management.
The requirements are:
1. MAN 3240 Organizational Behavior Analysis 3
2. MAN 3301 Human Resource Management 3
3. MAN 4282 Organizational Assessment 3
4. MAN 4737 Integrated Management Applications 3
- Total Management hours 12

2. A grade point average of 2.00 or better must be achieved in the minor course work at USF and in all minor courses completed at other institutions.
3. At least 9 hours of the required 12 credit hours must be taken in residence at USF-Tampa.

Management and Organization Faculty

• MARKETING (MKT) (CIP = 52.1401)
Marketing is a dynamic field with many dimensions, including product selection and planning, product distribution, 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 2.00 GPA in all major course work at USF and an overall 2.0 GPA including transfer work.

Required Marketing Courses:
- MAR 3823 Marketing Management 3
- MAR 3613 Marketing Research 3
- MAR 3400 Professional Selling 3
It is strongly recommended that marketing majors take an internship course as part of their plan of study. 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 (for Business Majors Only)

The requirements are:
1. MAR 3823 Marketing Management 3
2. Any 3 upper level Marketing courses with a MAR prefix (excluding MAR 4824) 9
   Total Marketing Hours 12
3. A grade of "C" or higher (NOT C-) is required in MAR 3023 and all marketing minor coursework.
4. A grade point average of 2.00 or better must be achieved in the course work at USF and in all minor courses completed at other institutions.
5. At least 9 hours of the required 12 credit hours must be taken in residence at USF–Tampa.

Advertising Business Major (BAV) (CIP = 52.1499)

Requirements for the Zimmerman Advertising Business Major

The Advertising major in the College of Business is unique in that it is a collaborative effort of the departments of Mass Communications in the College of Arts and Science and Marketing 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 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 complete the 6-hour Mass Communications core, and the 22-hour major.

Required courses for the Advertising major:
- ADV 3008 Introduction to Advertising 3
- ADV 3101 Advertising Creativity 3
- ADV 3300 Advertising Media Strategy 3
- ADV 4800 Advertising Campaigns 3
- ADV 4940 Advertising Practicum 1
- MAR 3613 Marketing Research 3
- MAR 3823 Marketing Management 3
- MAR 4503 Buyer Behavior 3
   Total 22

Residency

Six of the nine marketing hours must be taken in residency at USF Tampa. Ten of the thirteen advertising 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 2.00 is required in the major for graduation.

Requirements for the Minor in Entrepreneurship

This is an interdisciplinary entrepreneurship minor for majors in 1) business and 2) industrial and managing systems engineering 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 team building, oral and written communication skills, analytical abilities and information technology proficiencies. These are essential entrepreneurial skills.
Requirements for a Minor in Entrepreneurship (for Business and Industrial Engineering majors only)

1. ENT 4014 New Venture Formation 3
   EIN 4933 Selected Topics: Creativity and Technology 3
   And two courses from the following: 6
   - 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
   Total 12

2. A grade point average of 2.00 or better must be achieved in the course work at USF and in all minor courses completed at other institutions.

3. At least 9 hours of the required 12 credit hours must be taken in residence at USF Tampa.

Requirements for a minor in Entrepreneurship (for Non Business and Non Industrial Engineering majors only)

1. ENT 3003 Principles of Entrepreneurship 3
   ENT 4014 New Venture Formation 3
   EIN 4933 Selected Topics: Creativity and Technology 3
   And two courses from the following: 6
   - 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
   Total 15

2. A grade point average of 2.00 or better must be achieved in the coursework at USF and in all minor courses completed at other institutions.

3. At least 9 hours of the required 15 credit hours must be in residence at USF Tampa.

Marketing Faculty

Center for Entrepreneurship Faculty
Director: M. Fountain; Assistant Professor: S. Lux, L. Zhang; Instructor: S. Budd.

• INTERNATIONAL BUSINESS (ITB) (CIP = 52.1101)

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)
Business Courses
- FIN 3604 International Finance or ECO 3703 International Economics 3
- ISM 4382 Global Information or MAR 4156 International Marketing or 3
- MAN 4600 International Management
**COLLEGE OF BUSINESS**

**UNIVERSITY OF SOUTH FLORIDA 2012-2013 UNDERGRADUATE CATALOG**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAN 4631</td>
<td>Capstone Course</td>
<td>3</td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td>9</td>
</tr>
</tbody>
</table>

### Area Studies Courses (9)

Students should see an advisor for an approved list of upper level area studies courses.

### Business Concentration (12)

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 3 hours of upper-level ISM Coursework

### Foreign Language Above First Year (9)

Foreign Language(s) selected should support the study abroad area and the Area Studies courses.

### Overseas Business Internship (3) 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.

### Minor in International Business

**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 2.00 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 2.00 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
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
   PHC 4720 Foundations of Professional Writing in Public Health

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 Govt 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 4740 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
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.

- **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 close association between students and the business world. Delta Sigma Pi is a coed, professional business fraternity.
- **Economics Scholar Society** – To promote and develop 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.
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 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; and Ethical practice (CARE).

The Mission of the College of Education is: 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.

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 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.

The University follows a University-wide approach to educator preparation. Its programs for the preparation of teachers represent a cooperative effort in planning and practice by faculties in appropriate academic areas. Many Foundations of Knowledge and Learning (FKL) Core Curriculum courses and courses in the content areas are offered through the College of Arts and Sciences. Courses primarily designed for teacher candidates are taught by the College of Education faculty.

Important information is available from the College of Education website at http://www.coedu.usf.edu/. For information concerning policies for Undergraduate and MAT Programs refer to the College of Education website at http://www.coedu.usf.edu.

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 be taken only twice with an unsatisfactory grade before removal from the program.

Students enrolled in courses requiring field experiences might need to be fingerprinted and have background checks, depending on the policy of the school district or agency.

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.

Admission Requirements for Students Entering Educator Preparation Programs

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. 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.

Students apply for admission into one of the upper-level educator preparation programs offered by the College of Education after completing the necessary prerequisites. Applications are submitted to the Pre-Education Advising Office in the Student Academic Services Office of the College of Education.

Admission to an upper-level educator preparation program is contingent upon meeting the following preliminary 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 a pre-education advising session to make certain they are enrolled in courses appropriate for their intended major.
3. Completion of PRAXIS I, CLAST, 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 will 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 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)
- 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 community college or university where the student is currently earning the Associate in Arts or baccalaureate degree. In addition to the courses listed below under USF International/Diversity Courses, FKls that satisfy the area of Human and Cultural Diversity in a Global Context or general education courses that satisfy the area of ALAMEA are applicable. Foreign language courses may be used to meet this requirement.

**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**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AMH 2010</td>
<td>American History I</td>
<td>3</td>
</tr>
<tr>
<td>AMH 2020</td>
<td>American History II</td>
<td>3</td>
</tr>
<tr>
<td>ANT 2000</td>
<td>Introduction to Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>ANT 2410</td>
<td>Cultural Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>ARH 2050</td>
<td>History of Visual Arts I</td>
<td>3</td>
</tr>
<tr>
<td>ARH 2051</td>
<td>History of Visual Arts II</td>
<td>3</td>
</tr>
<tr>
<td>EUH 2011</td>
<td>Ancient History I</td>
<td>3</td>
</tr>
<tr>
<td>EUH 2022</td>
<td>Medieval History II</td>
<td>3</td>
</tr>
<tr>
<td>EUH 2031</td>
<td>Modern European History II</td>
<td>3</td>
</tr>
<tr>
<td>GEO 2371</td>
<td>Introduction to Earth Systems Science</td>
<td>3</td>
</tr>
<tr>
<td>LIT 2010</td>
<td>Introduction to Fiction</td>
<td>3</td>
</tr>
<tr>
<td>LIT 2040</td>
<td>Introduction to Drama</td>
<td>3</td>
</tr>
<tr>
<td>MUH 2051</td>
<td>Folk and Traditional Music of World Cultures</td>
<td>3</td>
</tr>
<tr>
<td>REL 2300</td>
<td>Introduction to World Religions</td>
<td>4</td>
</tr>
<tr>
<td>SYG 2000</td>
<td>Introduction to Sociology</td>
<td>3</td>
</tr>
</tbody>
</table>

6. Minimum GPA: An overall minimum GPA of 2.50 on all attempted hours.

7. Additional criteria as may be established by each program. Credit requirements in each major include courses in the following categories: Professional Education Core, Teaching Specialization Preparation, and Exit Requirements. For questions concerning Foundations of Knowledge and Learning Core Curriculum and Exit Requirements, refer to the Foundations of Knowledge and Learning Core Curriculum Requirements section of the catalog. See specific requirements for each major listed in “Departments and Programs” below.

Some programs accept a limited number of students. Additionally, certain programs admit students only in a specified semester. Students should refer to the specific program descriptions in this catalog for additional admission information and prerequisites. Information regarding admission requirements for programs may also be obtained from Pre-Education Advising (DAC 107).

**Information for International Students Pursuing a Degree in College of Education Programs**

If your program requires a field experience or internship through the College of Education, you will need to obtain a Social Security Number (SSN) in order to complete the requirements for several courses. Obtaining the SSN is the responsibility of the student.

**Undergraduate Students**

If you are pursuing a Bachelor’s Degree in an educator preparation field, you will need to complete field experiences in EDF 2005 and EDG 2701. These are prerequisite courses required for admission to the College of Education. You will need an SSN before enrolling the first day of classes for these courses.

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 in this program please discuss this with the program coordinator of the Exercise Science program.
Education Advising

Student Academic Services (SAS) is responsible for many of the processes and procedures that support the academic pursuits of students in the College. The department’s major areas of responsibility include: Pre-Education Advising, Undergraduate Advising, Graduate Studies, Teacher Certification, and Internship. SAS is committed to serving the University community, particularly students in the College of Education.

Students are ultimately responsible for knowing and fulfilling all university, college, and degree program requirements for graduation. Admitted students are encouraged to make an appointment with an academic advisor in EDU 106 each semester. For additional contact information, please call the SAS office or visit the web site at [http://www.coedu.usf.edu/sas/](http://www.coedu.usf.edu/sas/).

Advising Office

USF Tampa: For College of Education students, EDU 106, (813) 974-1804.

Application Information:

For general information, call (813) 974-1804. The admission process into the College of Education (COEDU) 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](http://www.coedu.usf.edu) from the Prospective Student tab. Tampa Campus students must register and attend a COEDU orientation after being accepted into the College.

During the College Orientation, students 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.
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.

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. In most programs internship sites include the entire spectrum of sites available in the various counties served by USF.

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 (www.coedu.usf.edu/sas/). Application deadline for Fall Semester is mid-June. 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. Elementary and Early Childhood programs require completion of all professional education and specialization course work except for HLP 4722 and Senior Seminar.
6. Special Education and Physical Education programs require completion of all professional education and specialization coursework.
7. Secondary Education Programs require completion of the professional course sequence except for EEX 4070/EDF 4430 and a minimum of two thirds of the specialization coursework.
8. Elementary, Early Childhood, and Physical Education programs require a combined grade point average of 2.50 in professional education and specialization coursework as well as an overall USF GPA of 2.50. Special Education programs require an overall USF GPA of 2.50. Secondary Education programs require a minimum GPA of 2.50 in professional education and specialization coursework or an overall USF GPA of 2.50.
9. Students must earn a minimum “C-” or better grade or “S” in their required major courses.

Failure to pass the Subject Area and Professional Education components of the FTCE will result in an “I” final grade for the final internship experience.
College Requirements for Graduation from Educator Preparation Programs

To be certified by the College of Education for graduation, a student must have:

1. Earned a minimum of 120-semester hour credit.
2. Successfully complete all program requirements for ESOL.
3. A minimum overall USF grade-point average of 2.50 or a minimum GPA of 2.50 in teaching specialization courses and a minimum GPA of 2.50 in the Professional Education sequence is required for Secondary Education Programs. The Physical Education, Elementary and Early Childhood programs require a combined grade point average of 2.50 in professional education and specialization as well as an overall USF GPA of 2.50.
4. Satisfactory completion of the internship which includes passing the Subject Area and Professional Education components of the Florida Teacher Certification Exam (FTCE).
5. Passing scores on the appropriate FTCE Subject Area and Professional Education subtests. NOTE: English, Math, Science, and Social Science majors must pass the 6-12 subject matter exam.
6. All documents due for graduation (i.e., test scores, final grades, final transcripts) must be submitted 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. Completed the major requirements in a state-approved educator preparation program (which includes general preparation, teaching specialization, and professional preparation).
8. A minimum of 8 credits in professional Education courses in addition to internship and 12 credits in specialization courses must have been earned at USF.
9. A minimum of 30 hours after admittance to an upper-level program.

Note 1: Normally, the college will recommend the granting of a Bachelor of Science (BS) degree which includes 3 hours of upper level Writing Intensive coursework and a 3 hour capstone course. The Capstone course is contained within the major coursework. To obtain a Bachelor of Arts (BA) degree, the student must meet the Foreign Language Competency (see graduation requirements in front of catalog) in addition to the Writing Intensive and Capstone course.

SunCoast Area Teacher Training Program (SCATT)

Founded in 1981, the SunCoast Area Teacher Training (SCATT) Honors Program celebrates excellence in teaching while emphasizing professionalism, leadership, and community service. SCATT is an award-winning teacher training program designed to enrich the already outstanding teacher preparation programs currently offered within the College of Education. Its mission is to enhance the teaching profession by establishing high performance expectations for all members by offering research-based learning experiences that support exceptional instruction and encourage reflective practice. Although the majority of participants in the SCATT program are undergraduates, as many as 10% of its members are graduate students enrolled in a Master of Arts in Teaching (MAT) program. Classroom teachers may choose to continue their involvement in SCATT by completing the requirements to become a SCATT Clinical Educator, supervising SCATT students during their final internship.

As an active member of SCATT, students participate in a variety of learning and leadership events, workshops and community service projects (e.g., fundraisers, tutoring opportunities) to enrich their knowledge base as educators and their skills as leaders. The entrance and exit requirements for the program help identify those students who have demonstrated high levels of academic achievement, leadership potential and those who have a commitment to aspire to the highest standards of the teaching profession. To graduate as a SCATT student, individuals participate in activities each semester prior to their final internship that extend “above and beyond” the requirements of their academic curricula. In addition, they are offered the opportunity to network with students pursuing other education programs other than their own. The SCATT program is highly regarded by school principals because SCATT graduates have the enriched experiences necessary to be top-notch professionals. For additional information about the SCATT Honors Program, please feel free to visit the SCATT Office (located on the second floor of the David C. Anchin Center, just off the Rotunda), call (813) 974-2061 or visit our Web site at (http://www.coedu.usf.edu/main/auxiliary/scatt/scatthome.html).

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</th>
<th>Department</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Early Childhood Education</td>
<td>Childhood Education</td>
<td>(BEC)</td>
</tr>
<tr>
<td>Elementary Education</td>
<td>Childhood Education</td>
<td>(BEE)</td>
</tr>
<tr>
<td>Exceptional Student Education</td>
<td>Special Education</td>
<td>(BEX)</td>
</tr>
<tr>
<td>English Education</td>
<td>Secondary Education</td>
<td>(BEN)</td>
</tr>
<tr>
<td>Foreign Language</td>
<td>Secondary Education</td>
<td>(BEN)</td>
</tr>
</tbody>
</table>
The College of Education is organized into seven departments. Each department has one or more programs listed alphabetically in the following section.

### DEPARTMENTS AND PROGRAMS

**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**

*Acting Chairperson:* A. Cranston-Gingras; *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; *Visiting Instructor:* L. Sayre; *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 USF GPA of 2.5 and a GPA of 2.5 in the combined Professional Core and Teaching Specialization prior to final internship and graduation.

Part-time students in Elementary Education (those admitted prior to Fall 2012 and taking 9 hours or less per semester) must meet program and internship requirements associated with the programs. These requirements include being available to participate in the internships during regular school hours. Students admitted after Summer 2012 will be a part of 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 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, Chalk and Wire requirements, associated internships, and a professional portfolio demonstrating the program outcomes and 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: Successful completion of (1) TSL 4080, and TSL 4251, with a minimum grade of 70% or better on all three sections of the ESOL Comprehensive Exam administered in the two ESOL courses; (2) a 20-hour early ESOL field experience in TSL 4080; (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 folder, containing all assignments and test results from TSL 4080 and TSL 4251, and all ESOL performance check-off sheets from other ESOL-infused courses that a student has taken.

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: Successful completion of (1) TSL 4080, TSL 4081, and TSL 4251, with a minimum grade of 70% or better on all three sections of the ESOL Comprehensive Exam administered in the three ESOL courses; (2) a 20-hour early ESOL field experience in TSL 4080; (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 folder, containing all assignments and test results from TSL 4080, TSL 4081, and TSL 4251, and all ESOL performance check-off sheets from other ESOL-infused courses that a student has taken.

Requirements after Admission into the Elementary and Early Childhood Programs:
1. Maintain at least a 2.5 G.P.A. in program. If a student falls below 2.5 G.P.A. he/she may be dismissed.
2. Receive a grade of C- or higher in all required courses to progress to the following semester.
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. Schneider, N. Williams; Assistant Professors: J. Blank, D. Dennis, S. Han, J. Manning, A. Parker, Instructors: B. Green, A. Hall, C. Lippincott, D. Stewart; Professor Emeritus: J. Klesius, S. Homan.

• EARLY CHILDHOOD EDUCATION: Pre-Kindergarten/Primary (BEC) (CIP = 13.1210)
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
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.)

Professional Education Core (31 cr. hrs.):

- EDF 4124 Child Growth and Learning 3
- EEC 4941 Field Experience I 3
- EEC 4942 Field Experience II 3
- EEC 4943 Field Experience III 3
- EEC 4940 Final Internship 10
- EEC 4936 Senior Seminar in Early Childhood Education (Capstone) 3
- TSL 4080 Curriculum and Pedagogy of ESOL 3
- TSL 4251 Applying Linguistics to ESOL Teaching and Testing 3

Specialization (42 cr. hrs.):

- EDG 4909 Young Children with Special Needs 3
- EDG 4909 Assessment, Evaluation, Reporting Process 3
- EEC 4203 Programs for Young Children 3
- EEC 4211 Integrated Curriculum: Science and Mathematics 3
- EEC 4212 Integrated Curriculum: Social Sciences/ Humanities & Art 3
- EEC 4303 Creative and Affective Experiences for Young Children 3
- EEC 4307 Cognitive Experiences for Young Children 3
- EEC 4408 Child, Family & Teacher Relations 3
- EEC 4604 Classroom Management and Guidance of Young Children 3
- EEC 4706 Language and Emerging Literacy 3
- HSC 3301 Health, Safety, Nutrition and Motor Skills for the Young Child 3
- RED 4310 Reading & Learning to Read 3
- RED 4511 Linking Literacy Assessment to Instruction 3
- LAE 4414 Teaching Literature in the Elementary School (Writing Intensive) 3

The order in which these courses are to be taken is spelled out in the program of study.

- **ELEMENTARY EDUCATION (BEE) (CIP = 13.1202)**

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
NOTE: Proposed changes in the admission criteria for Elementary Education are being reviewed and if approved will be effective Fall 2013. That is, students who seek admission to the program at the junior level, whether transfer students or native USF students will have to satisfy a number of specific requirements beyond those for other programs in the College of Education. Those requirements will include a portfolio of documents for pre-professional work hours, completed reference forms, a personal statement of interest and other items. Please see the Department’s website at http://www.coedu.usf.edu/main/departments/ce/ce.html for additional and more specific information about the requirements.

The order in which these courses are to be taken is designated in the program of study.

**Professional Education (30-33 credit hours):**
- EDF 3122 Learning and the Developing Child 3
- EEX 4742 Narrative Perspectives (Exit) 3
- EDF 4430 Measurement for Teachers 3
- EEX 4070 Integrating Exceptional Students in the Regular Classroom 2-3
- TSL 4080 Curriculum and Pedagogy of ESOL 3
- TSL 4081 Literacy Development in English Language Learners 3
- TSL 4251 Applying Linguistics to ESOL Teaching and Testing 3
- EDE 4940 Final Internship 10-12

**Specialization (41 credit hours):**
- EDE 4301 Classroom Management, School Safety, Ethics, Law, and Elementary Methods 3
- EDE 4941 Childhood Education Internship Level I 3
- HLP 4722 Health and Physical Education for the Child 2
- EDE 4942 Childhood Education Internship Level II 6
- LAE 4314 Teaching Writing in the Elementary School 3
- LAE 4414 Teaching Literature in the Elementary Schools (Exit) 3
- MAE 4310 Teaching Elementary School Mathematics I 3
- MAE 4326 Teaching Elementary School Mathematics II 3
- RED 4310 Reading and Learning to Read 3
- RED 4511 Linking Literacy Assessment to Instruction 3
- SCE 4310 Teaching Elementary School Science 3
- SSE 4313 Teaching Elementary (K-6) Social Studies 3
- EDE 4223 Creative Experiences for the Child 3

**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)**

**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
- Other program prerequisites: **
  - SPC X600/SPC X608/SPC X016 Public Speaking 3
  - ENG X101*** 3
  - ENG X102*** 3
  - Lit Course (ENL, LIT, or AML) 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.
- ***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 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. (For USF, see “Academic Policies and Procedures – Foundations of Knowledge and Learning Core Curriculum” section of the catalog.)

**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 Social Foundations of Education (Exit) 3
- EDF 3214 Human Development and Learning 3
- EDF 4430 Measurement for Teachers 3
- EEX 4070 Integrating Exceptional Students in the Regular Classroom 2
- FLE 4317 Teaching LEP Students K-12 3
- FLE 4316 Language Principles and Acquisition 3
- Literacy Course 3
- ESE 4322 Classroom Management 3

**Specialization (21 credit hours):**

- ENC 3310 Expository Writing 3
- One of the following:
  - LIT 3103 Great Literature of the World (Exit) 3
  - WST 4410 Third World Women Writers (Exit) 3
  - LAE 4469 Teaching World Literature to Middle and Secondary Students 3
- One of the following:
  - AML 3031 American Literature to 1860 3
  - AML 3032 American Literature 1860-1912 3
  - AML 3051 American Literature 1912-1945 3
- One of the following:
  - ENL 3015 British Literature to 1616 3
  - ENL 3230 British Literature 1616-1780 3
  - ENL 3251 British Literature 1780-1900 3
ENL 3273 British Literature 1900-1945 3
One of the following:
  LIT 3383 The Image of Women in Literature 3
  LIT 4386 British and American Literature by Women (Exit) 3
One of the following:
  LIN 3010 Introduction to Linguistics 3
  ENG 4060 History of the English Language 3
One of the following:
  LIN 3670 English Grammar and Usage 3
  LIN 4680 Structure of American English 3

Additional Specialization (24 credit hours):
  LAE 4464 Adolescent Literature for Middle and Secondary Students (Exit) 3
  LAE 4323 Methods of Teaching English: Middle School (Fall Semester Only) 3
  LAE 4530 Methods of Teaching English: Practicum (Fall Semester Only) 3
  LAE 4335 Methods of Teaching English: High School (Spring Semester Only) 3
  LAE 4936 Senior Seminar in English Education 3
  LAE 4940 Internship: English Education 9

English Education (BEN), 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
  ENC 1101 Composition I 3
  SPC 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
  Total 15

Spring Semester - Year 1
  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
  Total 15

Fall Semester - Year 2
  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
  Total 15

Spring Semester - Year 2
  AML 3031 American Literature from the Beginnings to 1860 or AML 3032 or AML 3051 3
  EDF X085 Teaching Diversity for Educators and Field Experience 3
  ENC 3310 Expository Writing 3
  XXX XXXX FKL Natural Sciences (Physical) 3
  XXX XXXX General Elective 1
  Total 13

Summer Term - Year 2
  EDF 3604 Social Foundations of Education 3
## FOREIGN LANGUAGE EDUCATION (FLE) with ESOL Endorsement

(BFS/BFF/BFI/BFG/BFR) (CIP = 13.1306)

### 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: 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 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. FLE students must also take TSL 4081 - ESOL 2, 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 2040  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 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 (33 credit hours):
  EDF 3214 Human Development and Learning 3
  EDF 3604 Social Foundations of Education (Exit) 3
  EDF 4430 Measurement for Teachers 3
  EEX 4070 Integrating Exceptional Students in the Regular Classroom 3
  FLE 4316 Language Principles and Acquisition 3
  FLE 4317 Teaching LEP Students K-12 3
  TSL 4081 ESOL 2 Literary Development in English Language Learners 3
  FLE 4936 Senior Seminar in Foreign Language Education 2
  FLE 4940 Internship: Foreign Language Education 9
  ESE 4322 Classroom Management 3

Teaching Specialization (42 credit hours):
  1. Foreign language (30)
     Conversation and Composition 12
     Literature 6
     Culture and Civilization 6
     Linguistics 3
     Exit requirement language course 3
  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 3
     Spring Term:
        FLE 4333 Methods of Teaching Foreign Languages and ESOL in the Secondary School 3
        FLE 4370 Practicum in Foreign Language Teaching in the Secondary School 3
     Summer Term:
        FLE 4290 Technology in the Foreign and Second Language Classroom 3

• MATHEMATICS EDUCATION (BMA) (CIP = 13.1311)
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 2040 Introduction to Technology for Educators 3
  • Other state mandated program prerequisites:**
    Four (4) hours Calculus & Analytic Geometry I
Four (4) hours Calculus & Analytic Geometry II
Four (4) hours Electives in Mathematics
*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 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 - Liberal Arts Requirements” section of the catalog.)

Professional Education (32 credit hours):
EDF 3214 Human Development and Learning 3
EDF 3604 Social Foundations of Education (Exit) 3
EDF 4430 Measurement for Teachers 3
EEX 4070 Integrating Exceptional Students in the Regular Classroom 2
TSL 4324 ESOL Competencies and Strategies 3
MAE 4940 Internship: Mathematics Education 9
MAE 4936 Senior Seminar in Mathematics Education 3
ESE 4322 Classroom Management 3

Specialization (30-31 credit hours):
MAC 2313 Calculus III 4
MAD 3100 Discrete Mathematics 3
MAS 3105 Linear Algebra 4
or
MAS 4301 Elementary Abstract Algebra 3
MAS 4214 Elementary Number Theory 3
MGF 3301 Bridge to Abstract Mathematics 4
MHF 4403 Early History of Math (Exit) 3
MTG 3212 Geometry 3
or
MTG 4214 Modern Geometry 4
STA 2023 Intro Statistics I 4

Additional Specialization (15 credit hours):
MAE 4320 Middle School Methods 3
MAE 4330 Senior High School Methods 3
MAE 4551 Reading the Language of Mathematics 3
MAE 4652 Technology for Teaching Secondary School Mathematics I 3
MAE 4945 Practicum in Mathematics Education 3

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
ENC 1101 Composition I 3
MAC 2311 Calculus I 4
XXX XXXX FKL Fine Arts 3
XXX XXXX FKL Social and Behavioral Sciences 3
XXX XXXX FKL Humanities 3
Total 16

Spring Semester - Year 1
EDF 2005 Introduction to the Teaching Profession and Field Experience 3
ENC 1102 Composition II 3
MAC 2312 Calculus II 4
XXX XXXX FKL Social and Behavioral Sciences 3
### Fall Semester - Year 2
- **EDF X085** Teaching Diversity for Educators and Field Experience 3
- **EME 2040** Introduction to Technology for Educators 3
- **MAC 2313** Calculus III 4
- **FKL XXXX** FKL Natural Sciences (Life) 3
- **Total** 16

### Spring Semester - Year 2
- **EDF 3604** Social Foundations of Education 3
- **STA 2023** Introductory Statistics I 4
- **FKL XXXX** FKL Human and Cultural Diversity in a Global Context 3
- **FKL XXXX** FKL Natural Sciences (Physical) 3
- **Total** 13

### Summer Term - Year 2
- **EDF 3214** Human Development and Learning 3
- **Total** 3

### Fall Semester - Year 3
- **FLE 4365** ESOL Competencies and Strategies 3
- **MAE 4320** Teaching Mathematics in the Middle Grades 3
- **MAE 4652** Technology for Teaching Secondary School Mathematics I 3
- **MGF 3301** Bridge to Abstract Mathematics 4
- **MTG 3212** Geometry or MTG 4214 Modern Geometry 3
- **Total** 16

### 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 2
- **MAS 3105** Linear Algebra 4
- **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
- **FKL XXXX** Elective 1
- **MAE 4945** Practicum in Mathematics Education 3
- **MHF 4403** The Early History of Mathematics 3
- **Total** 13

### 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

### 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."
**COLLEGE OF EDUCATION**

**UNIVERSITY OF SOUTH FLORIDA 2012-2013 UNDERGRADUATE CATALOG**

### 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 state mandated program prerequisites:**
  - *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.)

### Professional Education Core for all Tracks (29 credit hours):
The required courses in the professional education core are as follows:
- **EDF 3214** Human Development and Learning 3
- **EDF 3604** Social Foundations of Education (Exit) 3
- **EDF 4430** Measurement for Teachers 3
- **EEX 4070** Integrating Exceptional Students in the Regular Classroom 2
- **TSL 4324** ESOL Competencies and Strategies 3
- **SCE 4936** Senior Seminar in Science Education 3
- **SCE 4940** Internship: Science Education 9
- **ESE 4322** Classroom Management 3

### Biology Education

#### Prerequisites (16 credit hours):
- **BSC 2010** Cellular Processes* 3
- **BSC 2010L** Cellular Processes Lab* 1
- **BSC 2011** Biodiversity* 3
- **BSC 2011L** Biodiversity Lab* 1
- **CHM 2045, 2045L** General Chemistry I and Lab* 4
- **PHY 2048, 2048L** General Physics I and Lab (with Calculus) 8
  - or
- **PHY 2053, 2053L** General Physics and Lab* 8
  - **MAC 2311 or MAC 2281**

#### Specialization (34 credit hours):
- **Human Anatomy Physiology Course** 3
- **PCB 3063** General Genetics 3
- **PCB 3023, 3023L** Cell Biology and Lab 4
- **PCB 3043, 3043L** Principles of Ecology and Lab 4
- **BSC 4057** Environmental Issues (Exit) 3
- **SCE 4320** Teaching Methods in Middle Grades Science 3
- **SCE 4330** Teaching Methods in Secondary School Science 3
- **SCE 4305** Communication Skills in the Science Classroom 3
- **SCE 4863** Science, Technology, Society Interaction 4
Additional Requirements:
MAC 2281 Engineering Calculus I or MAC 2311 Calculus I

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.

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<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
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<td>ENC 1101</td>
<td>Composition I</td>
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<td>CHM 2045</td>
<td>General Chemistry I or PHY 2048 or PHY 2053</td>
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<td>CHM 2045L</td>
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<td>XXX XXXX FKL</td>
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<td><strong>Spring Semester - Year 1</strong></td>
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<td>ENC 1102</td>
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<td>Humanities</td>
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<td>MAC 2311</td>
<td>Calculus I or MAC 2281 Engineering Calculus I</td>
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<td><strong>Fall Semester - Year 2</strong></td>
<td>BSC 2010</td>
<td>Biology I - Cellular Processes</td>
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<td>EME 2040</td>
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<td>XXX XXXX FKL</td>
<td>Human and Cultural Diversity in a Global Context</td>
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<td>Social and Behavioral Sciences</td>
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<td>XXX XXXX FKL</td>
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<td>BSC 2011</td>
<td>Biology II - Diversity</td>
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<td><strong>Summer Term - Year 2</strong></td>
<td>CHM 2046</td>
<td>General Chemistry II or PHY 2049 or PHY 2054</td>
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<td>CHM 2046L</td>
<td>General Chemistry II Laboratory or PHY 2049L or PHY 2054</td>
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<td>EDF 3604</td>
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<td>General Genetics Laboratory</td>
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<td>SCE 4305</td>
<td>Communication Skills in the Science Classroom</td>
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<td>BSC 4057</td>
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<td><strong>Spring Semester - Year 3</strong></td>
<td>ESE 4322</td>
<td>Classroom Management for Diverse School and Society</td>
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<td>TSL 4324</td>
<td>ESOL Competencies and Strategies</td>
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<td>PCB 3043</td>
<td>Principles of Ecology</td>
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<td>PCB 3043L</td>
<td>Principles of Ecology Laboratory</td>
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<td>SCE 4330</td>
<td>Teaching Methods in the Secondary School-Sciences</td>
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### Chemistry Education

**Prerequisites (16 credit hours):**

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<th>Course</th>
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<th>Credit Hours</th>
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<td>CHM 2045</td>
<td>General Chemistry I*</td>
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<tr>
<td>CHM 2045L</td>
<td>General Chemistry Lab*</td>
<td>1</td>
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<td>CHM 2046</td>
<td>General Chemistry II*</td>
<td>3</td>
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<td>CHM 2046L</td>
<td>General Chemistry II Lab*</td>
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<td>PHY 2053</td>
<td>Physics and Lab*</td>
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<td>MAC 2311 or MAC 2281</td>
<td>Engineering Calculus I or MAC 2311 Calculus I</td>
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**Specialization (32 credit hours):**

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<td>CHM 2210, 2210L</td>
<td>Organic Chemistry I and Lab</td>
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<td>CHM 3120C</td>
<td>Elementary Analytical Chemistry</td>
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<td>CHM 3610, 3610L</td>
<td>Intermediate Inorganic Chemistry and Lab</td>
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<td>CHM 4070</td>
<td>Historical Perspectives in Chemistry</td>
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<td>SCE 4320</td>
<td>Teaching Methods in Middle Grades Science</td>
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<td>SCE 4330</td>
<td>Teaching Methods in Secondary School Science</td>
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<td>SCE 4305</td>
<td>Communication Skills in the Science Classroom</td>
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### 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

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<td>ENC 1102</td>
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### COLLEGE OF EDUCATION

#### UNIVERSITY OF SOUTH FLORIDA 2012-2013 UNDERGRADUATE CATALOG

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<td>SCE 4305</td>
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<td>SCE 4940</td>
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**TOTAL CREDIT HOURS TO DEGREE** 120
Physics Education
Prerequisites (16 credit hours):
- BSC 2010, 2010L Biology I and Lab*  4
  or
- CHM 2045, 2045L General Chemistry I and Lab*  4
  PHY 2048, 2048L General Physics I and Lab* (with Calculus)
  and
  PHY 2049, 2049L General Physics II and Lab* (with Calculus)
  or
- PHY 2053, 2053L General Physics I and Lab*
  and
- PHY 2054, 2054L General Physics II and Lab*
  and
- MAC 2311 or MAC 2281

Specialization (40 credit hours):
- PHY 2020 Conceptual Physics  3
- PHY 3101 Modern Physics  3
- PHY 3221 Mechanics I  3
- PHY 3323C Electricity and Magnetism  3
- PHY 4031 Great Themes in Physics  3
- SCE 4320 Teaching Methods in Middle Grade Science  3
- SCE 4330 Teaching Methods in Secondary School Science  3
- SCE 4305 Communication Skills in the Science Classroom  3
- SCE 4863 Science, Technology, Society Interaction  4
- MAC 2311 Calculus I  4
- MAC 2312 Calculus II  4
- MAC 2313 Calculus III  4

*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 2281 Engineering Calculus I or 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
- BSC 2010 Biology I - Cellular Processes or CHM 2045 General Chemistry I  3
- BSC 2010L Biology I Cellular Processes Laboratory or CHM 2045L General Chemistry I Lab  1
- ENC 1102 Composition II  3
- MAC 2282 Engineering Calculus II or MAC 2312 Calculus II  4
- XXX XXXX FKL Social and Behavioral Sciences  3
  Total  14

Fall Semester - Year 2
- EDF X085 Teaching Diversity for Educators and Field Experience  3
- MAC 2283 Engineering Calculus III or MAC 2313 Calculus III  4
- PHY 2048 General Physics I or PHY 2053 General Physics I  3
- PHY 2048L General Physics I Laboratory or PHY 2053L General Physics I Laboratory  1
- XXX XXXX FKL Humanities  3
  Total  14
Spring Semester - Year 2
BSC 2011 Biology II - Diversity or CHM 2046 General Chemistry II 3
BSC 2011L Biology II Diversity Laboratory or 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 or PHY 2054 General Physics II 3
PHY 2049L General Physics II Laboratory or PHY 2054L General Physics II Laboratory 1
Total 14

Summer Term - Year 2
EDF 3214 Human Development and Learning 3
EDF 3604 Social Foundations of Education 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
XXX XXXX Elective 2
Total 14

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
XXX XXXX FKL Human and Cultural Diversity In a Global Context 3
PHY 3323 Electricity and Magnetism I 3
SCE 4863 Technology, Society Interaction 4
PHY 4031 Great Themes in Physics 3
Total 13

Spring Semester - Year 4
EEX 4070 Integrating Exceptional Students in the Regular Classroom 2
SCE 4936 Senior Seminar in Science Education 3
SCE 4940 Internship: Science Education 9
Total 14

TOTAL CREDIT HOURS TO DEGREE 120

• SOCIAL SCIENCE EDUCATION (BSS) (CIP = 13.1317)

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**:
  American Government 3
Select four of the six areas for a total of 12 credit hours:
  Anthropology 3
**Completion of Foundations of Knowledge and Learning Core Curriculum requirements (General Education)**

Foundations of Knowledge and Learning Core Curriculum coursework (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.)

The following are the courses recommended by the Social Science Education program to fulfill the State Mandated Common Prerequisites:

1. **POS 2041 American National Government**  
   or  
   **POS 2080 American Political Tradition**

2. **ANT 2000 Introduction to Anthropology**  
   or  
   **ANT 2410 Cultural Anthropology**  
   or  
   **ANTA 2410 Cultural Anthropology**

3. **GEA 2000 Global Geography**  
   or  
   **ECO 1000 Basic Economics**  
   or  
   **ECO 2013 Macroeconomics**

4. **SYG 2000 Introduction to Sociology**  
   or  
   **SYG 2010 Contemporary Sociology**  
   or  
   **PSY 2012 Introduction to Psychological Science**

   **AMH 2010 American History I**  
   **AMH 2020 American History II**

**Professional Education Core (17 credit hours):**

- **EDF 3214 Human Development and Learning**  
  3
- **EDF 3604 Social Foundations of Education (Exit)**  
  3
- **EDF 4430 Measurement for Teachers**  
  3
- **EEX 4070 Integrating Exceptional Students in the Regular Classroom**  
  2
- **TSL 4324 ESOL Competencies and Strategies**  
  3
- **ESE 4322 Classroom Management**  
  3

**Social Sciences Specialization (44-45 credit hours):**

- **AMH 2010 American History I**  
  3
- **AMH 2020 American History II**  
  3
- **AMH 3421 Early Florida**  
  4
- **AMH 3423 Modern Florida**  
  4
- **GEA 2000 World Regional Geography**  
  3
- **HUM 2210 Studies in Culture: Classical through Medieval**  
  3
- **HUM 2230 Studies in Culture: Renaissance through the 20th Century**  
  3
- **INR 3018 World Ideologies**  
  3
- **POS 2112 State and Local Government**  
  3
- **Any 3000/4000 level Social Science course**  
  3/4
- **Any course from African, Asian, or Latin**  
  3
American, or Middle Eastern History 3
One of the following:
ANT 2000 Introduction to Anthropology 3
ANT 2410 Cultural Anthropology 3
One of the following:
ECO 1000 Basic Economics 3
ECO 2013 Macroeconomics 3
One of the following:
SYG 2000 Introduction to Sociology 3
SYG 2010 Contemporary Problems 3
One of the following:
POS 2041 American National Government 3
POS 2080 The American Political Tradition 3
Social Science Education (27 credit hours):
SSE 4333 Teaching Middle Grades Social Science 3
SSE 4334 Teaching Secondary Grades Social Science 3
SSE 4335 Teaching Social Science Themes* 3
SSE 4600 Reading and Basic Skills in the Social Sciences 3
SSE 4936 Senior Seminar in Social Sciences Education 3
SSE 4940 Internship: Social Science Education** 9
*SSE 4333 must be successfully completed prior to SSE 4335.
**Only SSE 4936 can be taken at the same time as SSE 4940.

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
AMH 2010 American History I 3
ENC 1101 Composition I 3
XXX XXXX FKL Fine Arts 3
XXX XXXX FKL Mathematics (select MGF 1106 or MGF 1107) 3
Total 12

Spring Semester - Year 1
AMH 2020 American History II 3
EDF 2005 Introduction to the Teaching Profession and Field Experience 3
ENC 1102 Composition II 3
XXX XXXX FKL Mathematics or Quantitative Reasoning 3
(recommended: STA 2023 Introductory Statistics I)
XXX XXXX FKL Natural Sciences (Life) 3
Total 15

Fall Semester - Year 2
ECO 2013 Economic Principles (Macroeconomics) 3
EME 2040 Introduction to Technology for Educators 3
GEA 2000 World Regional Geography 4
XXX XXXX FKL Natural Sciences (Physical) 3
Total 13

Spring Semester - Year 2
ANT 2000 Introduction to Anthropology or ANT 2410 Cultural Anthropology 4
EDF X855 Teaching Diversity for Educators and Field Experience 3
HUM 2230 Studies in Culture: The Renaissance Through the Twentieth Century 3
POS 2041 American National Government or POS 2080 The American Political Tradition 3
SYG 2000 Introduction to Sociology or SYG 2010 Contemporary Social Problems 3
Total 16

Fall Semester - Year 3

235
### Spring Semester - Year 3

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<td>EDF 4430</td>
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<td>SSE 4600</td>
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<td>SSE 4334</td>
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**TOTAL CREDIT HOURS TO DEGREE**: 120

### 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
   f. 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
3. 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.
4. Complete professional development plans throughout the program.
5. Complete and pass individual development plans in identified skill areas during the program.
<table>
<thead>
<tr>
<th>Semester I:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>EDF 3122 Learning and the Developing Child</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td></td>
</tr>
<tr>
<td>EDF 4131 Learning and the Developing Adolescent</td>
<td>3</td>
</tr>
<tr>
<td>TSL 4324 ESOL Competencies and Strategies</td>
<td>3</td>
</tr>
<tr>
<td>PET 3421 Curriculum &amp; Instruction in Phys. Ed.</td>
<td>3</td>
</tr>
<tr>
<td>PET 4432 Instructional Design &amp; Content: Physical Education Elementary</td>
<td>3</td>
</tr>
<tr>
<td>PET 4942 Phys. Ed. Pre-Internship: Elementary</td>
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</tr>
<tr>
<td>Total</td>
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</table>

<table>
<thead>
<tr>
<th>Semester II:</th>
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<tbody>
<tr>
<td>EDF 3604 Social Foundations of Education (Exit)</td>
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<tr>
<td>EDF 4430 Measurement for Teachers</td>
<td>3</td>
</tr>
<tr>
<td>PET 3031 Motor Behavior</td>
<td>3</td>
</tr>
<tr>
<td>PET 3010 Personal/Professional Dev. Seminar</td>
<td>3</td>
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<tr>
<td>PET 4433 Instructional Design &amp; Content: Physical Education Elementary II</td>
<td>3</td>
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<td>Total</td>
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<table>
<thead>
<tr>
<th>Semester III:</th>
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<tbody>
<tr>
<td>PET 3012 Professional Development in Physical. Ed. I</td>
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<tr>
<td>PET 3441 Instructional Design &amp; Content: Middle School Physical Education</td>
<td>3</td>
</tr>
<tr>
<td>RED 4310 Reading and Learning to Read</td>
<td>3</td>
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<tr>
<td>PET 3640 Adapted Physical Education</td>
<td>3</td>
</tr>
<tr>
<td>PET 4304 Principles and Issues in Coaching</td>
<td>3</td>
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<tr>
<td>Total</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Semester IV:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>PET 3013 Professional Development in Phys. Ed. II</td>
<td>1</td>
</tr>
<tr>
<td>PET 4380 Applied Exercise Science</td>
<td>3</td>
</tr>
<tr>
<td>PET 4401 Class Management, Safety, Ethics, Law and Organization and Administration of Physical Education</td>
<td>3</td>
</tr>
<tr>
<td>PET 4442 Instructional Design &amp; Content: Physical Education Secondary</td>
<td>3</td>
</tr>
<tr>
<td>PET 4944 Phys. Ed. Pre-Internship: Secondary</td>
<td>3</td>
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<tr>
<td>Total</td>
<td>13</td>
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</tbody>
</table>

*Please see academic advisor for required Directed Studies course.

<table>
<thead>
<tr>
<th>Semester V</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>PET 4946 Internship in Phys. Ed.: Elementary (Capstone)</td>
<td>6</td>
</tr>
<tr>
<td>PET 4947 Internship in Phys. Ed.: Secondary</td>
<td>6</td>
</tr>
<tr>
<td>SMP 3012 Issues in Sport</td>
<td>3</td>
</tr>
<tr>
<td>Total</td>
<td>15</td>
</tr>
</tbody>
</table>

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% of the overall GPA and 70% 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
- Human Anatomy and Physiology II and lab or Human Physiology and lab
- College Algebra or higher
- Statistics or Pre-Calculus
- General Psychology
- General Nutrition
- Survey of Chemistry or higher and lab
- Public Speaking

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. HLP 2081 Personal Wellness

**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
- PETXXXX 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 Professors: 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 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.

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 Social Foundations of Education 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 4905 Independent Study: Educational Foundations 1-3
- EDF 4909 Directed Study: Educational Foundations 1-3
- EDF 5607 Trends in Social-Political Foundations of Schooling in the U.S. 3
- IDS 3115 Values and Choices 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 4
- MHS 4905 Independent Study: Guidance and Counseling Education 1-4
- SDS 4040 Introduction to Student Personnel Work in Higher Education 2
Educational Foundations and Research Minor

Minimum of 15 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 Social Foundations of Education 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 3214 Human Development and Learning, 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 begin 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.

Special Education Faculty

- 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.
### COLLEGE OF EDUCATION

**UNIVERSITY OF SOUTH FLORIDA 2012-2013 UNDERGRADUATE CATALOG**

- 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:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>EEX 4941</td>
<td>Practicum in ESE</td>
<td>4</td>
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<tr>
<td></td>
<td>Level 1 (1 hour); Level 2 (1 hour);</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Level 3 (1 hour); Level 4 (1 hour)</td>
<td></td>
</tr>
<tr>
<td>EDF 3122</td>
<td>Learning and the Developing Child</td>
<td>3</td>
</tr>
<tr>
<td>EDF 3604</td>
<td>Social Foundations of Education (Exit)</td>
<td>3</td>
</tr>
<tr>
<td>EDF 4430</td>
<td>Measurement for Teachers</td>
<td>3</td>
</tr>
<tr>
<td>FLE 4316</td>
<td>Language Principles and Acquisition</td>
<td>3</td>
</tr>
<tr>
<td>FLE 4317</td>
<td>Teaching LEP Students K-12</td>
<td>3</td>
</tr>
<tr>
<td>EEX 4944</td>
<td>Internship: Exceptional Student Education</td>
<td>8</td>
</tr>
</tbody>
</table>

**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:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>EEX 4202</td>
<td>Exceptional Education Core Competencies: Context and Foundations</td>
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<td>EEX 4240</td>
<td>Exceptional Education Core Competencies: Beginning to Teach</td>
<td>6</td>
</tr>
<tr>
<td>EEX 4241</td>
<td>Exceptional Education Core Competencies: Creating Effective Learning Environments</td>
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</tr>
<tr>
<td></td>
<td>Exceptional Education Core Competencies: Enhancing Expertise in Teaching and Instructional Decision Making</td>
<td>5</td>
</tr>
<tr>
<td>EEX 4244</td>
<td>Exceptional Education Core Competencies: Becoming a Special Education Teacher</td>
<td>3</td>
</tr>
<tr>
<td>EEX 4742</td>
<td>Narrative Perspectives on Exceptionality: Cultural and Ethical Issues (Exit)</td>
<td>3</td>
</tr>
<tr>
<td>LAE 4314</td>
<td>Teaching Writing</td>
<td>3</td>
</tr>
<tr>
<td>MAE 4310</td>
<td>Teaching Elementary School Mathematics I</td>
<td>3</td>
</tr>
<tr>
<td>RED 4310</td>
<td>Early Literacy Learning</td>
<td>3</td>
</tr>
<tr>
<td>RED 4511</td>
<td>Linking Literature Assessment to Instruction</td>
<td>3</td>
</tr>
</tbody>
</table>
Student Organizations and Activities

Alliance of Health and Fitness Professionals
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
Kappa Delta Pi is an international co-educational honor society in Education. The society was founded to recognize and encourage excellence in scholarship, high personal standards, improvement in teacher preparation, and distinction in achievement. Undergraduate student applicants must have an overall grade point average of 3.0. Graduate students must have an overall grade point average of 3.5. For more information regarding Kappa Delta Pi please visit www.kdp.org.

Student Council for Exceptional Children (SCEC)
The Student Council for Exceptional Children [SCEC] is an organization opened to students from across the university interested in the education of children and young adults with exceptionalities and who wish to serve this population as they learn to appreciate the diversity present in our schools and society. 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 and encourage reflective practice. To apply, please complete an application available in the SCATT Office, which is located on the second floor of the David C. Anchin Center in the COEDU building, visit our website at http://scatt.coedu.usf.edu/, or call (813) 974-2061 for additional information.
MISSION STATEMENT

The mission of the USF College of Engineering is to improve the quality of life in our community by:

• Providing a high quality education for our engineering 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.

We 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, we lead by example and pass these attributes on to our 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, and Mechanical Engineering. 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 a designated Engineering 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 Bachelor of Science in Computer Science program is accredited by the Computing Accreditation Commission of the Accreditation Board for Engineering and Technology (CAC of ABET). The engineering programs of the College (Chemical Engineering, Civil Engineering, Computer Engineering, Electrical Engineering, Industrial Engineering and Mechanical Engineering) are accredited by the Engineering Accreditation Commission of the Accreditation Board for Engineering and Technology, Inc. (ABET), 111 Market Place, Suite 1050, Baltimore, MD 21202-4012 - telephone: (410) 347-7700.

The Departments and Programs section that follows contains descriptions of the engineering 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 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 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 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.

Cooperative Education Programs
The USF Career Center’s Cooperative Education (Co-op) program provides placement services for students
interested in 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
Co-op employment during their 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
Bachelors and Masters 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 must follow a program to overcome their deficiencies. Alternatives for
these students, classified “Pre-Engineering,” include preparatory coursework at the University of South Florida or
other regionally accredited institutions of higher learning.

Student Laptop Computer Requirement

245
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.

**Undergraduate Admission to the College of Engineering**

Students apply to the College of Engineering upon initial entry to USF by declaring Engineering as their intended major on their admissions application.

**College of Engineering Admission Requirements for First Time in College Students**

First time in college students meeting the criteria below are granted direct entry to the College. Those who do not are classified "Pre-Engineering." Pre-Engineering students are fully admitted to the College after satisfactorily completing Calculus I and II and Physics I with lab. Additional requirements must be met prior to admission to specific degree programs.

1. Admitted to the University of South Florida as a degree seeking student;
2. Test Scores:
   - SAT—combined minimum score of 1200 with a minimum quantitative score of 600 OR
   - ACT—combined minimum score of 26 and ACT mathematics minimum score of 26

**College of Engineering Admission Requirements for Transfer Students**

1. Transfer students must meet the following minimum requirements:
   a. Admitted to the University of South Florida as a degree seeking student
   b. Minimum GPA of 2.0 in each of the following categories: overall undergraduate GPA, math and science courses (best attempt), engineering courses; courses within the major.
   c. Must have earned 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. The Department of Computer Science and Engineering has continuation requirements based on two attempts – see the Required Prerequisites for Entering Engineering Programs. Registration that is canceled for non-payment is considered an attempt.
   d. Completion of Calculus I and II and Physics I with lab, with minimum grades of C (C- is insufficient).
   Transfer students who meet criteria a., b. and c. but not d. will be classified pre-engineering until criteria d. is met.
   Transfer students who do not meet criteria a, b, or c will not be admitted to the College of Engineering.
2. Florida College System transfer students that have met the minimum criteria above and have completed the courses shown below with the minimum grades and GPA required by the Academic Department are accepted directly into the College of Engineering and to the specific program.

**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</td>
<td>MAC 2311/MAC 2281 (4)</td>
</tr>
<tr>
<td>MAC 2282</td>
<td>MAC 2312/MAC 2282 (4)</td>
</tr>
<tr>
<td>MAC 2283</td>
<td>MAC 2313/MAC 2283 (4)</td>
</tr>
<tr>
<td>MAP 2302</td>
<td>MAP 2302/ MAP X305(3)</td>
</tr>
</tbody>
</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 2045/CHM 2045L</td>
<td>CHM X045/L or CHM X045C or CHS X440/CHM X045L* (4)</td>
</tr>
<tr>
<td>PHY 2048/PHY 2048L</td>
<td>PHY X048C or PHY X043/X048L (4)</td>
</tr>
<tr>
<td>PHY 2049/PHY 2049L</td>
<td>PHY X049C or PHY X044/PHY X049L (4)</td>
</tr>
</tbody>
</table>

*or CHS X440 if 4 credits with included laboratory

Note: Computer Science: Transfer students into the Computer Science program from a Florida College System institution are not required to have MAP 2302 or the Chemistry course indicated above.

**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**

Students in the College of Engineering carry a major code of EGU (engineering) until they have completed the pre-requisite requirements for departmental admission. Engineering 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 or Mechanical Engineering. 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). Minimum acceptable grades for math, science and engineering courses, as they pertain to specific degree programs are defined by the academic departments. Students are strongly encouraged to familiarize themselves with departmental guidelines.

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, MAC 2312 or MAC 2282, MAC 2313 or MAC 2283
  - PHY 2048, PHY 2048L, PHY 2049, PHY 2049L
  - CHM 2045, 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, MAC 2312 or MAC 2282, MAC 2313 or MAC 2283
  - PHY 2048, PHY 2048L, PHY 2049, PHY 2049L
  - CHM 2045, CHM 2045L

- 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*

Admission to the Department as a Pre-CSE student requires:

- Completion of:
  - ENC 1101 and ENC 1102
  - MAC 2311 or MAC 2281, MAC 2312 or MAC 2282
  - PHY 2048, PHY 2048L, PHY 2049, PHY 2049L
  - with a 3.0 GPA (based on best attempt in these courses) and a minimum grade of “C” in each course (grades of “C-” are insufficient).

- Completion of COP 2510 (or equivalent) 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
Admission to one of the two major degree tracks is granted by also meeting the following continuation requirements:

- Completion of CDA 3103 and COP 3514 with a minimum grade 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.
- A minimum overall GPA of 2.0
- A minimum USF GPA of 2.0

The Department of Electrical Engineering

*Bachelor of Science in Electrical Engineering*

- Completion of:
  - MAC 2311 or MAC 2281, MAC 2312 or MAC 2282, MAC 2313 or MAC 2283
  - PHY 2048, PHY 2048L, PHY 2049, PHY 2049L
  - CHM 2045, CHM 2045L
- 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

The Department of Industrial & Management Systems Engineering

*Bachelor of Science in Industrial Engineering*

- Completion of:
  - MAC 2311 or MAC 2281, MAC 2312 or MAC 2282, MAC 2313 or MAC 2283
  - PHY 2048, PHY 2048L, PHY 2049, PHY 2049L
  - CHM 2045, 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 Mechanical Engineering

*Bachelor of Science in Mechanical Engineering*

- Completion of:
  - MAC 2311 or MAC 2281, MAC 2312 or MAC 2282, MAC 2313 or MAC 2283
  - PHY 2048, PHY 2048L, PHY 2049, PHY 2049L
  - CHM 2045, CHM 2045L
- A minimum grade of C in each course and a 2.50 GPA based upon all attempts in these courses (grade forgiveness is honored in this calculation).
- A minimum overall GPA of 2.0
- A minimum USF GPA of 2.0

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 six credit hours, to be determined by program, may be counted toward both degrees in some degree programs.

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.

Engineering 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 responsibility for seeing that all performance standards and graduation requirements are met rests with the student.

Advising Office
Tampa Campus: 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.

1. University Foundations of Knowledge and Learning Core Curriculum (FKL) Requirements

All students are required to take 42 semester hours to complete the University FKL requirements. Thirty-six (36) semester hours will satisfy the FKL core course requirements and 6 semester hours will satisfy the exit requirements. Students in the College of Engineering may take a second physical science course in place of the life science requirement. In addition, 12 hours considered Gordon Rule Communication (6A) courses must be completed. For Engineering students, these are ENC 1101, ENC 1102, ENC 3246, and an additional course. The fourth course is selected from any general education or departmental course that has been certified Gordon Rule Communication (6A) by the USF Undergraduate Council.

2. Mathematics and Science Core Requirements

For students in the engineering programs, the mathematics coursework consists of a Calculus for Engineers sequence (or a calculus sequence of equivalent level), Differential Equations, and additional hours of designated courses supportive of the student’s selected field of specialization, as specified by the department. Science coursework includes the Physics with Calculus sequence and General Chemistry course(s) depending on the degree-granting program. Students whose preparation is insufficient to enter the Calculus for Engineers are required to take supplementary algebra and trigonometry courses.

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 the 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.
1. Minimum Requirements

   All undergraduate students with a student classification of engineering or pre-engineering and students who have been admitted to any academic department in the College of Engineering must maintain a minimum cumulative GPA of 2.0 in each of the following categories:
   a. Overall Undergraduate GPA
   b. USF GPA
   c. Math and Science courses (best attempt)
   d. Engineering Courses
   e. Courses within the major

   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 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. Registration that is canceled for non-payment is also considered an attempt. 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 to a degree track and continuation in the Department of Computer Science and Engineering, attempts in CDA 3103 and COP 3514 are limited to two. See “Required Prerequisites for Entering Engineering Programs”.

   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 thus 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 engineering student is required to complete an application for graduation and check list. Students should schedule an appointment with the Department Undergraduate Coordinator to review graduation qualifications and obtain departmental signatures well in advance of the College graduation application deadline. Approved applications must be submitted to the College of Engineering Advising Office the term prior to the semester in which graduation is sought. Graduation applications are due on the dates indicated below.

- August 1st for Fall Graduation
- November 1st for Spring Graduation
- April 1st for Summer Graduation

The Departments may have earlier graduation application deadlines. The Department deadline takes precedence over the College deadline.

Department of 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)

Four-Year Curriculum - Chemical Engineering

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 | Courses at a Florida College System Institution
---|---
MAC 2281 | MAC 2311/MAC 2281 (4)
MAC 2282 | MAC 2312/MAC 2282 (4)
MAC 2283 | MAC 2313/MAC 2283 (4)
MAP 2302 | MAP 2302/MAP X305(3)

Natural Sciences:

Courses at USF | Courses at a Florida College System Institution
---|---
CHM 2045/CHM 2045L | CHM X045/L or CHM X045C or CHS X440/CHM 045L (4)
CHM 2046/CHM 2046L | CHM X046/L or CHM 046C
PHY 2048/PHY 2048L | PHY X048C or PHY X043/X048L (4)
PHY 2049/PHY 2049L | PHY X049C or PHY X044//PHY X049L (4)

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.

Fall Semester - Year 1

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHM 2045</td>
<td>General Chemistry I</td>
<td>3</td>
</tr>
<tr>
<td>CHM 2045L</td>
<td>General Chemistry I Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>EGN 3000</td>
<td>Foundations of Engineering</td>
<td>1</td>
</tr>
<tr>
<td>ENC 1101</td>
<td>Composition I</td>
<td>3</td>
</tr>
</tbody>
</table>
### MAC 2281 Engineering Calculus I 4
XXX XXXX Fine Arts Elective 3
XXX XXXX Human Cultural Diversity and Global Context Elective 3
Total 18

### Spring Semester - Year 1
CHM 2046 General Chemistry II 3
CHM 2046L General Chemistry II 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 Engineering Statistics I 3
MAC 2283 Engineering Calculus III 4
PHY 2049 General Physics II 3
PHY 2049L General Physics II Laboratory 1
XXX XXXX Social and Behavioral Sciences Elective 3
XXX XXXX Humanities Elective 3
Total 17

### Spring Semester - Year 2
ECH 3023C Material and Energy Balances 4
EGN 3343 Thermodynamics I 3
EGN 3433 Modeling and Analysis of Engineering Systems or MAP 2302 Differential Equations 3
XXX XXXX Social and Behavioral Sciences Elective 3
Total 13

### Summer Term - Year 2
CHM 2210 Organic Chemistry I 3
CHM 2210L Organic Chemistry Laboratory I 2
XXX XXXX Humanities Elective 3
ENC 3246 Communications for Engineers 3
Total 11

### Fall Semester - Year 3
ECH 4123 Chemical Engineering Thermodynamics 3
ECH 4264 Transport Phenomena 4
ECH 4846 Numerical Methods in Chemical Engineering 4
XXX XXXX Department Upper-Level Elective 3
Total 14

### Spring Semester - Year 3
CHM 2211 Organic Chemistry II 3
CHM 2211L Organic Chemistry II Laboratory 2
ECH 3702 Instrument Systems I 3
ECH 4265C Mass Transfer Operations 4
BME 4406 Engineering of Biological Systems 3
Total 15

### Fall Semester - Year 4
ECH 3240L Chemical Engineering Lab I 3
ECH 4415C Reaction Engineering 4
ECH 4605 Product and Process Systems Engineering 3
EMA 4003 Introduction to Materials Science 3
XXX XXXX Department Upper-Level Elective 3
Total 16
Spring Semester - Year 4
ECH 4241L Chemical Engineering Laboratory II 3
ECH 4323C Process Dynamics and Control 3
ECH 4615 Product and Process Design 3
XXX XXXX Department Upper-Level Elective 3
Total 12
TOTAL CREDIT HOURS TO DEGREE 131

Gordon Rule (6A) is fully met through the mathematics courses above, ENC1101, ENC1102, 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.

The writing intensive and capstone design exit requirements are fully met through ENC3246 and ECH4615.

Biomedical Engineering Minor
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)
ECH 4930 Special Topics in Chemical Engineering* 3
BME 4406 Engineering of Biological Systems 3

The remaining 9 credit hours can be taken from the following list:
ECH 6417 Bioseparations 3
ECH 4931 Special Topics in Chemical Engineering: Introduction to Biomedical Engineering** 3
PHZ 4702 Applications of Physics to Biology & Medicine I 4
PHZ 4703 Applications of Physics to Biology & Medicine II 4
BCH 3023 Introductory Biochemistry 3
EIN 4313C Human Factors 3
BME 5006 Theory and Design of Bioprocesses 3
EIN 5245 Work Physiology/Biomechanics 3
BME 5040 Pharmaceutical Engineering 2
ECH 5748 Selected Topics in Biomedical Engineering** 1-10
BME 5748 Selected Topics in Biomedical Engineering ** 3

*Please see academic advisor for required special topics courses.
**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 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 civil engineering firms or government agencies where they:
   • deal effectively with clients, the public, or other engineering groups,
   • communicate effectively with co-workers and the public, and
   • are effective members of teams involved in the design and/or construction of civil engineering projects.

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, 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 Mechanics; and EGN 3365 Materials Engineering to continue in the program, including a 2.5 GPA (best
attempt) in all these courses;
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 (CIP = 14.0801)

Four-Year Curriculum - Civil Engineering

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 the community college, 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 of the 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 a Florida College System institution that will be accepted in the Math/Science/Engineering areas:

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</td>
<td>MAC 2311/MAC 2281 (4)</td>
</tr>
<tr>
<td>MAC 2282</td>
<td>MAC 2312/MAC 2282 (4)</td>
</tr>
<tr>
<td>MAC 2283</td>
<td>MAC 2313/MAC 2283 (4)</td>
</tr>
<tr>
<td>MAP 2302</td>
<td>MAP 2302/ MAP X305(3)</td>
</tr>
</tbody>
</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 2045/CHM 2045L or CHS 2440/CHS 2440L</td>
<td>CHM X045/L or CHM X045C or CHS X440/CHM 045L (4)</td>
</tr>
<tr>
<td>CHM 2046/CHM 2046L</td>
<td>CHM X046/L or CHM 046C</td>
</tr>
<tr>
<td>PHY 2048/PHY 2048L</td>
<td>PHY X048C or PHY X043/X048L (4)</td>
</tr>
<tr>
<td>PHY 2049/PHY 2049L</td>
<td>PHY X049C or PHY X044//PHY X049L (4)</td>
</tr>
</tbody>
</table>

Please be aware of the immunization, foreign language, and continuous enrollment policies of the university, as well as the qualitative standards required.

Civil and Environmental Engineering Admissions Requirements

Students entering the Civil & Environmental Engineering department must have completed the equivalent USF Engineering Calculus sequence, one year equivalent USF General Physics and one semester equivalent USF General Chemistry with a minimum of 2.3 GPA; and must have an overall and USF GPA of 2.0 or better.

Continuation Requirements

Continuation in the Civil & Environmental Engineering program requires a minimum grade of C- as well as a 2.5 GPA (based on best attempt) over the following courses:

- EGN 3311 Statics
- EGN 3331 Mechanics of Materials
- EGN 3353 Basic Fluid Mechanics
- EGN 3365 Materials

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 assistance will be provided by academic advisors in the College of Engineering.

Fall Semester - Year 1
### Spring Semester - Year 1

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHS 2440</td>
<td>Chemistry for Engineers</td>
<td>3</td>
</tr>
<tr>
<td>CHS 2440L</td>
<td>Chemistry for Engineers Laboratory</td>
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</tr>
<tr>
<td>EGN 3000</td>
<td>Foundations of Engineering</td>
<td>1</td>
</tr>
<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>
</tr>
<tr>
<td>XXX XXXX</td>
<td>FKL Social &amp; Behavioral Sciences Elective</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Total</td>
<td>15</td>
</tr>
</tbody>
</table>

### Fall Semester - Year 2

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EGN 3311</td>
<td>Statics</td>
<td>3</td>
</tr>
<tr>
<td>XXX XXXX</td>
<td>FKL Humanities Elective</td>
<td>3</td>
</tr>
<tr>
<td>MAC 2283</td>
<td>Engineering Calculus III</td>
<td>4</td>
</tr>
<tr>
<td>PHY 2049</td>
<td>General Physics I</td>
<td>3</td>
</tr>
<tr>
<td>PHY 2049L</td>
<td>General Physics I Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>EGN 4427</td>
<td>Numerical and Computer Tools I</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Total</td>
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### Spring Semester - Year 2

<table>
<thead>
<tr>
<th>Course Code</th>
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<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>EGN 3321</td>
<td>Dynamics</td>
<td>3</td>
</tr>
<tr>
<td>EGN 3365</td>
<td>Materials</td>
<td>3</td>
</tr>
<tr>
<td>EGN 3331</td>
<td>Mechanics of Materials</td>
<td>3</td>
</tr>
<tr>
<td>EGN 3331L</td>
<td>Mechanics of Materials/ Materials Lab</td>
<td>1</td>
</tr>
<tr>
<td>EGN 3353</td>
<td>Basic Fluid Mechanics</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 6A course)</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Total</td>
<td>16</td>
</tr>
</tbody>
</table>

### Summer Term - Year 2

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EGN 3615</td>
<td>Engineering Economics with Social and Global Implications</td>
<td>3</td>
</tr>
<tr>
<td>ENC 3246</td>
<td>Communications for Engineers (WI)</td>
<td>3</td>
</tr>
<tr>
<td>XXX XXXX</td>
<td>FKL Human Cultural Diversity and Global Context</td>
<td>3</td>
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<td></td>
<td>Total</td>
<td>9</td>
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</table>

### Fall Semester - Year 3

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EGN 4454</td>
<td>Numerical and Computer Tools II</td>
<td>3</td>
</tr>
<tr>
<td>EGN 3343</td>
<td>Thermodynamics</td>
<td>3</td>
</tr>
<tr>
<td>EGN 3443</td>
<td>Probability and Statistics for Engineers</td>
<td>3</td>
</tr>
<tr>
<td>ENV 4001</td>
<td>Environmental Systems Engineering</td>
<td>3</td>
</tr>
<tr>
<td>TTE 4004</td>
<td>Transportation Engineering I</td>
<td>3</td>
</tr>
<tr>
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<td>Total</td>
<td>15</td>
</tr>
</tbody>
</table>

### Spring Semester - Year 3

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CES 3102</td>
<td>Structures I</td>
<td>3</td>
</tr>
<tr>
<td>CWR 4202</td>
<td>Hydraulics</td>
<td>3</td>
</tr>
<tr>
<td>EGN 3373</td>
<td>Introduction to Electrical Systems</td>
<td>3</td>
</tr>
<tr>
<td>ENV 4004L</td>
<td>Environmental/Hydraulics Engineering Lab</td>
<td>1</td>
</tr>
<tr>
<td>XXX XXXX</td>
<td>Department Upper-Level Elective (CE Concentration Elective)</td>
<td>3</td>
</tr>
<tr>
<td>XXX XXXX</td>
<td>FKL Humanities Elective</td>
<td>3</td>
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<td>Total</td>
<td>16</td>
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</table>

### Fall Semester - Year 4

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CEG 4011</td>
<td>Geotechnical Engineering I</td>
<td>3</td>
</tr>
</tbody>
</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**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CES 4702</td>
<td>Concepts of Concrete Design</td>
<td>3</td>
</tr>
<tr>
<td>CES 4605</td>
<td>Concepts of Steel Design</td>
<td>3</td>
</tr>
<tr>
<td>CGN 4851</td>
<td>Concrete Construction Materials</td>
<td>3</td>
</tr>
<tr>
<td>CEG 4012</td>
<td>Geotechnical Engineering II</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td>TTE 4005 Transportation Engineering II</td>
<td>3</td>
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</table>

**Geotechnical/Transportation Track**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CGN 4851</td>
<td>Concrete Construction Materials</td>
<td>3</td>
</tr>
<tr>
<td>CEG 4012</td>
<td>Geotechnical Engineering II</td>
<td>3</td>
</tr>
<tr>
<td>TTE 4005</td>
<td>Transportation Engineering II</td>
<td>3</td>
</tr>
<tr>
<td>XXX XXXX</td>
<td>Technical Elective</td>
<td>3</td>
</tr>
<tr>
<td>XXX XXXX</td>
<td>Technical Elective</td>
<td>3</td>
</tr>
<tr>
<td>CEG 4850</td>
<td>Capstone Geotechnical/Transportation Design</td>
<td>3</td>
</tr>
</tbody>
</table>

**Environmental/Water Resources Track**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENV 4417</td>
<td>Water Quality and Treatment</td>
<td>3</td>
</tr>
<tr>
<td>CWR 4540</td>
<td>Water Resources Engineering I</td>
<td>3</td>
</tr>
<tr>
<td>CEG 4012</td>
<td>Geotechnical Engineering II</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td>TTE 4005 Transportation Engineering II</td>
<td>3</td>
</tr>
<tr>
<td>XXX XXXX</td>
<td>Technical Elective</td>
<td>3</td>
</tr>
<tr>
<td>XXX XXXX</td>
<td>Technical Elective</td>
<td>3</td>
</tr>
<tr>
<td>CWR 4812</td>
<td>Capstone Water Resources/Environmental Design</td>
<td>3</td>
</tr>
</tbody>
</table>

The Program supports the following technical elective courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CCE 4031</td>
<td>Construction Management</td>
<td>3</td>
</tr>
<tr>
<td>CEG 4012</td>
<td>Geotechnical Engineering II</td>
<td>3</td>
</tr>
<tr>
<td>CES 4606</td>
<td>Concepts of Steel Design</td>
<td>3</td>
</tr>
<tr>
<td>CES 4702</td>
<td>Concepts of Concrete Design</td>
<td>3</td>
</tr>
<tr>
<td>CGN 4851</td>
<td>Concrete Construction Materials</td>
<td>3</td>
</tr>
</tbody>
</table>
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 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 graduates will apply their knowledge and skills to succeed in a computer science 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 the 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.
5. Our graduates will apply the basic computing principles and the knowledge of major areas of application of those fundamentals to the benefit of society.

Computer Engineering Program Educational Objectives:
1. Our graduates will apply their knowledge and skills to succeed in a computer engineering 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 the basic principles and practices of computing grounded in mathematics and science to successfully complete hardware and/or software related engineering projects to meet customer business objectives and/or productively engage in research.
5. Our graduates will apply the basic principles and practices of engineering in the computing domain to the benefit of society.

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)

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).

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.

<table>
<thead>
<tr>
<th>Course</th>
<th>Prerequisites</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>COP XXXX*</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>MAC X311</td>
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<tr>
<td>MAC X312</td>
<td></td>
<td>4</td>
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<td>PHY X048/X048L</td>
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<td>or</td>
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<tr>
<td>PHY X048C</td>
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<td>or</td>
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<tr>
<td>PHY X049/X049L</td>
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<td>or</td>
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<td></td>
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<tr>
<td>PHY X049C</td>
<td></td>
<td>4</td>
</tr>
</tbody>
</table>
*Introductory Programming in C, C++, Java, or equivalent language.

Natural Sciences:
XXX XXXXX**  6
**Two (2) 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 an overall grade point average of 3.00 or higher in these courses (best attempt) to be admitted to the Department of Computer Science and Engineering. 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 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.

<table>
<thead>
<tr>
<th>Fall Semester - Year 1</th>
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<tbody>
<tr>
<td>EGN 3000</td>
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<tr>
<td>ENC 1101</td>
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<td>MAC 2281</td>
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<table>
<thead>
<tr>
<th>Spring Semester - Year 1</th>
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<tbody>
<tr>
<td>COP 2510</td>
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<tr>
<td>ENC 1102</td>
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<td>MAC 2282</td>
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<td>PHY 2048</td>
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<tr>
<th>Fall Semester - Year 2</th>
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<tbody>
<tr>
<td>COP 3514</td>
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<tr>
<td>CDA 3103</td>
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<td>COT 3100</td>
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<th>Summer Term - Year 2</th>
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<tr>
<td>CDA 3201</td>
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</tr>
<tr>
<td>EGN 4450</td>
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</table>

| Fall Semester - Year 3  |
Gordon Rule (6A) is fully met through the mathematics courses above, ENC1101, ENC1102, ENC3246 and CIS4250 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 ENC3246 and CIS4250.

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)**

**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.

<table>
<thead>
<tr>
<th>Mathematics: Courses at USF</th>
<th>Courses at a Florida College System Institution</th>
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<tbody>
<tr>
<td>MAC 2281</td>
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<tr>
<td>MAP 2302</td>
<td>MAP 2302/ MAP X305(3)</td>
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</tr>
<tr>
<td>CHM 2045</td>
<td>General Chemistry I</td>
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<td>COP 3331</td>
<td>Object-Oriented Design</td>
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<tr>
<td>COT 3100</td>
<td>Introduction to Discrete Structures</td>
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<tr>
<td>MAP 2302</td>
<td>Differential Equations or EGN 3433 Modeling and Analysis of Engineering Systems</td>
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<td>Computer Logic and Design</td>
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<td>COP 4530</td>
<td>Data Structures</td>
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<td>EGN 4450</td>
<td>Introduction to Linear Systems</td>
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**Fall Semester - Year 3**

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<tr>
<td>COT 4400</td>
<td>Analysis of Algorithms</td>
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<td>XXX XXXX</td>
<td>Department Upper-Level Elective (CSE Elective)</td>
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<td>EEE 3394</td>
<td>Electronic Materials</td>
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<td>EGN 3373</td>
<td>Introduction to Electrical Systems I</td>
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**Spring Semester - Year 3**

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<td>COP 4600</td>
<td>Operating Systems</td>
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<td>EGN 3615</td>
<td>Engineering Economics with Social and Global Implications</td>
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<td>Department Upper-Level Elective (CSE Hardware Elective)</td>
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<td>XXX XXXX</td>
<td>Natural Sciences Elective</td>
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**Fall Semester - Year 4**

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<td>CMOS-VLSI Design</td>
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<tr>
<td>EGN 3443</td>
<td>Probability and Statistics for Engineers</td>
<td>3</td>
</tr>
<tr>
<td>ENC 3246</td>
<td>Communication for Engineers (WI)</td>
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<td>XXX XXXX</td>
<td>Department Upper-Level Elective (CSE Elective)</td>
<td>3</td>
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<tr>
<td>XXX XXXX</td>
<td>FKL Fine Arts Elective</td>
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**Spring Semester - Year 4**

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<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>CIS 4250</td>
<td>Ethical Issues and Professional Conduct</td>
<td>3</td>
</tr>
<tr>
<td>CIS 4910</td>
<td>Computer Science Project</td>
<td>2</td>
</tr>
<tr>
<td>XXX XXXX</td>
<td>FKL Human Cultural Diversity and Global Context</td>
<td>3</td>
</tr>
<tr>
<td>XXX XXXX</td>
<td>Department Upper-Level Elective (CSE Hardware Elective)</td>
<td>3</td>
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<tr>
<td>XXX XXXX</td>
<td>FKL Humanities Elective</td>
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</tr>
<tr>
<td></td>
<td><strong>Total</strong></td>
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</tbody>
</table>

**TOTAL CREDIT HOURS TO DEGREE**  
**128**

Gordon Rule (6A) is fully met through the mathematics courses above, ENC1101, ENC1102, ENC3246 and CIS4250 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 ENC3246 and CIS4250.

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 Science Minor**

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)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>COP 3514</td>
<td>Program Design</td>
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<tr>
<td>CDA 3103</td>
<td>Computer Organization</td>
<td>3</td>
</tr>
<tr>
<td>COP 3331</td>
<td>Object Oriented Design</td>
<td>3</td>
</tr>
<tr>
<td>COP 4530</td>
<td>Data Structures</td>
<td>3</td>
</tr>
</tbody>
</table>

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:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COT 4400</td>
<td>Analysis of Algorithms</td>
<td>3</td>
</tr>
<tr>
<td>COP 4600</td>
<td>Operating Systems</td>
<td>3</td>
</tr>
<tr>
<td>CDA 4205</td>
<td>Computer Architecture</td>
<td>3</td>
</tr>
</tbody>
</table>

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 at the University of South Florida is to provide internationally recognized educational programs; to conduct and disseminate internationally recognized research benefiting humanity; to provide service to society; and to emphasize the need for lifelong learning, ethical conduct and an understanding of the diverse social context in which engineering is practiced.

**Objectives**

The Department objectives are to produce graduates:

1. with the knowledge and skills necessary to practice Electrical Engineering successfully.
2. who can pursue advanced topics through graduate or professional studies.

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, operation, sales, or management of these products/services.

**Departmental Policies**
In addition to the College’s graduation requirement, the department has the following policies:

1. Mandatory academic advising of students for each term.
2. 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. MAP 2302, EGN 3373 and EGN 3374 must be passed with a grade of B or better 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 3.5 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 3.5 for core courses and an overall GPA of at least 3.5;
   b. Selection of two (2) Technical Electives in conjunction with a program advisor. One of the courses should be a 4000 level Sustainable Engineering/Green Engineering course and the other should be a course at the 5000/6000 level;
   c. Nine (9) additional credits (the EE Honors courses) beyond the degree requirements, which include a 4000 level Leadership Forum, 4000 level Internship/Study Abroad/Enhancement Experience, and 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)

Four-Year Curriculum in Electrical Engineering

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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<tbody>
<tr>
<td>MAC 2281</td>
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<tr>
<td>MAC 2282</td>
<td>MAC 2312/MAC 2282 (4)</td>
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<td>MAC 2313/MAC 2283 (4)</td>
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<tr>
<td>MAP 2302</td>
<td>MAP 2302/ MAP X305(3)</td>
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</table>

Natural Sciences:
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 3.00 overall grade point average in these courses (best attempt) and a minimum grade of “C” in each course. Continuation in the major requires successful completion of EGN 3373, EGN 3374, and Differential Equations with grades of 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.

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<thead>
<tr>
<th>Fall Semester - Year 1</th>
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<tbody>
<tr>
<td>ENC 1101  Composition I</td>
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<td>MAC 2281  Engineering Calculus I</td>
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<tbody>
<tr>
<td>EGN 3443  Probability and Statistics for Engineers</td>
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<tr>
<td>MAC 2283  Engineering Calculus III</td>
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<td>PHY 2049  General Physics II</td>
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<td>EEL 2161  EE Computer Methods</td>
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<td>EGN 3373  Introduction to Electrical Systems I</td>
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<td>EGN 3420  Engineering Analysis</td>
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<td>MAP 2302  Differential Equations or EGN 3433 Modeling and Analysis of Engineering Systems (Note: EGN 3433 is not a 6A course)</td>
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<td>XXX  XXXX  FKL Fine Arts Elective</td>
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<td>PHY 2049  General Physics II</td>
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<td>EGN 3374  Electrical Systems II</td>
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<td>ENC 3246  Communication for Engineers</td>
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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
EEE 4301 Electronics II 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 Project Design 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 FKL Social and Behavioral Sciences 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 & Management 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, production and plant design, applied statistics, operations research, human factors and productivity, 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 provide students with a high quality education which integrates the latest research and practices of the field into the curriculum, to pursue excellence in basic and applied research in the field of Industrial and Management Systems Engineering, and to provide service to the profession and to society.

Objectives
1. Our graduates will have comprehensive knowledge of industrial engineering and related scientific principles.
2. Our graduates will have the ability to think creatively, communicate effectively, and work productively in teams.
3. Our graduates will have an understanding of ethical and professional responsibilities of an industrial engineer.
4. Our graduates will be motivated to contribute to society in activities such as role models for the young, advisory positions for government or non-profit agencies, and as active members in professional organizations.
5. Our graduates will pursue life-long learning opportunities, such as short courses, seminars, professional conferences, certificate programs, and graduate studies.

Departmental Policies
In addition to the College’s graduation requirement, the department has the following policies:
1. Mandatory academic advising 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)

Four-Year Curriculum in Industrial and Management Systems Engineering

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
MAC 2282
MAC 2283
MAP 2302

Courses at a Florida College System Institution
MAC 2311/MAC 2281 (4)
MAC 2312/MAC 2282 (4)
MAC 2313/MAC 2283 (4)
MAP 2302/ MAP X305(3)

Natural Sciences:
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 2.0 GPA; must have completed one year of equivalent USF General Physics and Chemistry courses with a minimum grade of C or better and a 2.0 GPA; must have a USF and overall GPA of 2.0 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.

<table>
<thead>
<tr>
<th>Semester</th>
<th>Year 1</th>
<th>Year 2</th>
<th>Year 3</th>
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<tr>
<td><strong>Fall Semester</strong></td>
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<td><strong>Year 2</strong></td>
<td><strong>Year 3</strong></td>
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<tr>
<td>CHM 2045</td>
<td>General Chemistry I</td>
<td>EGN 3443 Probability &amp; Statistics for Engineering</td>
<td>EGN 3615 Engineering Economics with Social and Global Implications</td>
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<td>CHM 2045L</td>
<td>General Chemistry I Laboratory</td>
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<td>ENC 1101</td>
<td>Composition I</td>
<td>PHY 2049 General Physics II</td>
<td>EGS 1113 Introduction to Design Graphics</td>
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<td>MAC 2281</td>
<td>Engineering Calculus I</td>
<td>PHY 2049L General Physics I Laboratory</td>
<td>XXX XXXX FKL Human &amp; Cultural Diversity in a Global Context Elective</td>
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<td>XXX XXXX</td>
<td>FKL Social and Behavioral Sciences Elective</td>
<td>MAP 2302 Differential Equations or EGN 3433 Modeling and Analysis of Engineering Systems (Note: EGN 3433 is not a 6A course)</td>
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<td><strong>Spring Semester</strong></td>
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<td><strong>Year 2</strong></td>
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<tr>
<td>CHM 2046</td>
<td>General Chemistry II</td>
<td>COP 2510 Programming Concepts (or COP 2270 Programming in C for Engineers)</td>
<td>XXX XXXX FKL Humanities Elective</td>
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<tr>
<td>ENC 1102</td>
<td>Composition II</td>
<td>EGN 3311 Statics</td>
<td>EGS 1113 Introduction to Design Graphics</td>
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<td>MAC 2282</td>
<td>Engineering Calculus II</td>
<td>EGN 4450 Introduction to Linear Systems</td>
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<td><strong>Summer Term</strong></td>
<td><strong>Year 2</strong></td>
<td><strong>Year 3</strong></td>
<td><strong>Year 3</strong></td>
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<tr>
<td>EGN 3615</td>
<td>Engineering Economics with Social and Global Implications</td>
<td>EGS 1113 Introduction to Design Graphics</td>
<td>XXX XXXX FKL Human &amp; Cultural Diversity in a Global Context Elective</td>
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<td>Introduction to Design Graphics</td>
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### COLLEGE OF ENGINEERING

**UNIVERSITY OF SOUTH FLORIDA 2012-2013 UNDERGRADUATE CATALOG**

<table>
<thead>
<tr>
<th>Course Code</th>
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<th>Credits</th>
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<tr>
<td>EGN 3365</td>
<td>Materials Engineering I</td>
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<tr>
<td>EGN 3373</td>
<td>Introduction to Electrical Systems I</td>
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<tr>
<td>EIN 4312C</td>
<td>Work Analysis</td>
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<tr>
<td>EIN 4621</td>
<td>Manufacturing Processes</td>
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<td>ESI 4312</td>
<td>Deterministic Operations Research</td>
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#### Spring Semester - Year 3

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<tr>
<td>EGN 3343</td>
<td>Thermodynamics I</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>
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<tr>
<td>ESI 4313</td>
<td>Probabilistic Operations Research</td>
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<td>Engineering Cost Analysis</td>
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<tr>
<td>EIN 4364C</td>
<td>Facilities Design</td>
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<tr>
<td>ESI 4244</td>
<td>Design of Experiments</td>
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<tr>
<td>ESI 4523</td>
<td>Industrial Systems Simulation</td>
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#### Spring Semester - Year 4

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<tr>
<td>EIN 4601C</td>
<td>Automation and Robotics</td>
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<tr>
<td>EIN 4891</td>
<td>Capstone Design</td>
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<tr>
<td>ENC 3246</td>
<td>Communication for Engineers (WI)</td>
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<td>XXX XXXX</td>
<td>Department Upper-Level Elective</td>
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<td>(Industrial Engineering Technical Elective)</td>
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**TOTAL CREDIT HOURS TO DEGREE**  **128**

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*: T.K. Das; *Professors*: O. G. Okogbaa, J. Zayas-Castro; *Associate Professors*: G. Centeno, S. Lai Yuen, K. Reeves, M. X. Weng, A. Yalcin; *Assistant Professors*: A. Savachkin, 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
effective 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/processing/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:

- to provide an exemplary undergraduate and graduate education for students entering the mechanical engineering profession or seeking careers in related fields;
- to advance scientific knowledge through basic and applied research;
- to disseminate technical information through scholarly publication and presentation, and continuing education;
- to advance the profession through service within the associated societies;
- to promote activities which embrace global development.

Objectives
The objectives of the Undergraduate Program in Mechanical Engineering are:

- Our graduates will successfully apply concepts of science, mathematics, computation, and engineering in their chosen endeavor;
- Our graduates will possess knowledge and skills essential to engineering processes, such as design, analysis, synthesis, fabrication and experimental techniques;
- Our graduates will demonstrate skills for professional interaction and leadership including multi-disciplinary collaboration, and effective oral and written communication.
- 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:

- Mandatory academic advising of students for each term,
- Exit interviews as a graduation requirement,
- 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, one year equivalent USF General Physics and one semester equivalent USF General Chemistry with a minimum grade of C in each course and a 2.5 GPA based upon all attempts (grade forgiveness is honored in this calculation.

**MECHANICAL ENGINEERING (EME) (CIP = 14.1901)**

Four-Year Curriculum in Mechanical Engineering

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:

Courses at USF | Courses at a Florida College System Institution
---|---
MAC 2281 | MAC 2311/MAC 2281 (4)
MAC 2282 | MAC 2312/MAC 2282 (4)
MAC 2283 | MAC 2313/MAC 2283 (4)
MAP 2302 | MAP 2302/ MAP X305(3)

Natural Sciences:

Courses at USF | Courses at a Florida College System Institution
---|---
CHM 2045/CHM 2045L | CHM X045/L or CHM X045C or CHS X440/CHM X045L* (4)
PHY 2048/PHY 2048L | PHY X048C or PHY X043/X048L (4)
PHY 2049/PHY 2049L | PHY X049C or PHY X044/PHY X049L (4)

*or CHS X440 if 4 credits with included laboratory

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 2.0 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.

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>
</tr>
<tr>
<td>CHS 2440L</td>
<td>Chemistry for Engineers Laboratory</td>
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</tr>
<tr>
<td>EGN 3000</td>
<td>Foundations of Engineering</td>
<td>1</td>
</tr>
<tr>
<td>ENC 1101</td>
<td>Composition I</td>
<td>3</td>
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<tr>
<td>MAC 2281</td>
<td>Engineering Calculus I</td>
<td>4</td>
</tr>
<tr>
<td>XXX XXXX</td>
<td>FKL Humanities Elective</td>
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Spring Semester - Year 1

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<tr>
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<tbody>
<tr>
<td>ENC 1102</td>
<td>Composition II</td>
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<tr>
<td>MAC 2282</td>
<td>Engineering Calculus II</td>
<td>4</td>
</tr>
<tr>
<td>PHY 2048</td>
<td>General Physics I</td>
<td>3</td>
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<tr>
<td>PHY 2048L</td>
<td>General Physics I Laboratory</td>
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<tr>
<td>XXX XXXX</td>
<td>FKL Fine Arts Elective</td>
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Fall Semester - Year 2

<table>
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<tr>
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<td>FKL Social and Behavioral Sciences Elective</td>
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<td>MAC 2283</td>
<td>Engineering Calculus III</td>
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Spring Semester - Year 2
### College of Engineering

**UNIVERSITY OF SOUTH FLORIDA 2012-2013 UNDERGRADUATE CATALOG**

<table>
<thead>
<tr>
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<tr>
<td>EGN 3321</td>
<td>Dynamics</td>
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<tr>
<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>
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<tr>
<td>EML 3035</td>
<td>Programming Concepts for Mechanical Engineers</td>
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<tr>
<td>MAP 2302</td>
<td>Differential Equations</td>
<td>3</td>
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<td>XXX XXXX</td>
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**Summer Term - Year 2**

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<tr>
<td>EGN 3343</td>
<td>Thermodynamics I</td>
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<td>EGN 3443</td>
<td>Engineering Statistics I</td>
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<tr>
<td>EML 3500</td>
<td>Mechanics of Solids</td>
<td>3</td>
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<tr>
<td>EML 3022</td>
<td>Computer Aided Engineering (CAD)</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>
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<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>
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**Spring Semester - Year 3**

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<thead>
<tr>
<th>Course Code</th>
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<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>
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<td>XXX XXXX</td>
<td>FKL Human &amp; Cultural Diversity in a Global Context Elective</td>
<td>3</td>
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<tr>
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**Fall Semester - Year 4**

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<tbody>
<tr>
<td>EML 4106C</td>
<td>Thermal Systems and Economics</td>
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<tr>
<td>EML 4220</td>
<td>Vibrations</td>
<td>3</td>
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<tr>
<td>EML 4302</td>
<td>Mechanical Engineering Laboratory II</td>
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<tr>
<td>XXX XXXX</td>
<td>Department Upper-Level Elective (Technical Design Elective)</td>
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<tr>
<td>XXX XXXX</td>
<td>FKL Humanities Elective</td>
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**Spring Semester - Year 4**

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<tr>
<td>EML 4312</td>
<td>Mechanical Controls</td>
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</tr>
<tr>
<td>EML 4551</td>
<td>Capstone Design</td>
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</tr>
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<td>XXX XXXX</td>
<td>Department Upper-Level Elective (Technical Design Elective)</td>
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<td>XXX XXXX</td>
<td>Department Upper-Level Elective (Technical Design Elective)</td>
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**TOTAL CREDIT HOURS FOR BSME**

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<tr>
<td></td>
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<td>128</td>
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</tbody>
</table>

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**

Important Notice: The last applications for the undergraduate Bachelor of Science in Athletic Training program will be Spring of 2014 for admission Summer 2014. Beginning Fall 2012, students will no longer be admitted into Pre-Athletic Training.

- **Athletic Training (BAT) (CIP = 51.0913)**

  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 2-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://www.usfatep.com](http://www.usfatep.com). 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://www.usfatep.com](http://www.usfatep.com). Pre-Athletic Training majors enrolled at USF may also access information through Blackboard. 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, 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>Credits</th>
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<tbody>
<tr>
<td>BSC X010/X010L or BSC X010C</td>
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</tr>
<tr>
<td>PHY X053/X053L or PHY X053C or PHY X048/X048L or PHY X048C</td>
<td>4</td>
</tr>
<tr>
<td>PSY X012</td>
<td>3</td>
</tr>
<tr>
<td>HUN X201, HUN X932 or HUN X941</td>
<td>3</td>
</tr>
<tr>
<td>STA X023, STA X122 or STA X201</td>
<td>3 or 4</td>
</tr>
<tr>
<td>BSC X085/X085L and BSC X086/X086L</td>
<td>8</td>
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</table>
or BSC X085C and BSC X086C
or BSC X093C and BSC X094C
or PET X322C and PET X323C
or ZOO X733C and PCB X703C
or APK X100C and APK X105C

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:**

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<tr>
<th>Course Code</th>
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<th>Credits</th>
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<tr>
<td>ATR 3132</td>
<td>Kinesiology and Pathomechanics</td>
<td>3</td>
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<tr>
<td>APK 3120</td>
<td>Exercise Physiology I</td>
<td>3</td>
</tr>
<tr>
<td>ATR 3202</td>
<td>Measurement and Evaluation in Athletic Training</td>
<td>2</td>
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<tr>
<td>ATR 3212C</td>
<td>Upper Extremity Assessment</td>
<td>3</td>
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<td>ATR 3213C</td>
<td>Lower Extremity Assessment</td>
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<tr>
<td>ATR 3102C</td>
<td>Athletic Training Techniques</td>
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</tr>
<tr>
<td>ATR 3512</td>
<td>Athletic Training Admin &amp; Policy</td>
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<tr>
<td>ATR 3812L</td>
<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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<tr>
<td>ATR 3123</td>
<td>Scientific Foundations of Athletic Training</td>
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<tr>
<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>
<td>3</td>
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<tr>
<td>ATR 4302C</td>
<td>Therapeutic Modalities</td>
<td>3</td>
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<tr>
<td>ATR 4314C</td>
<td>Therapeutic Rehabilitation</td>
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<tr>
<td>ATR 4832L</td>
<td>Clinical Experience in Athletic Training III</td>
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<tr>
<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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<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.
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 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 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 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 in 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 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)

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 2012-2013 UNDERGRADUATE CATALOG*

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**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>Credits</th>
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<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>
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<tr>
<td>NUR 3535</td>
<td>Psychiatric/Mental Health Nursing</td>
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</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>
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<tr>
<td>NUR 3215L</td>
<td>Medical Surgical Nursing Clinical I</td>
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<td>NUR 4216</td>
<td>Medical Surgical Nursing II</td>
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<tr>
<td>NUR 4216L</td>
<td>Medical Surgical Nursing Clinical II</td>
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<tr>
<td>NUR 4165</td>
<td>Nursing Inquiry</td>
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<tr>
<td>NUR 4827C</td>
<td>Leadership &amp; Management in Professional Nursing Practice</td>
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<tr>
<td>NUR 4636</td>
<td>Community/Public Health: Population – Focused Nursing</td>
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</tr>
<tr>
<td>NUR 4636L</td>
<td>Community/Public Health Nursing Clinical</td>
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<tr>
<td>NUR 4355</td>
<td>Child &amp; Adolescent Health Nursing</td>
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<td>NUR 4455</td>
<td>Women’s Health Nursing</td>
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<tr>
<td>NUR 4467L</td>
<td>Maternal &amp; Pediatric Clinical Nursing Care Clinical</td>
<td>4</td>
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<tr>
<td>NUR 4948L</td>
<td>Preceptorship</td>
<td>6</td>
</tr>
</tbody>
</table>

*Total: 69*

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**Second Bachelor’s Degree Sequence (SBN) (CIP = 51.3801)**

**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:

- 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

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280
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 3
NUR 4165 Nursing Inquiry 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 4827C Leadership & Management in Prof Nursing Practice 3

Total: 69

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)

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
- 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

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 4895 Educational Role of the Nurse in Healthcare 3
- NUR 4828 Foundations of Nursing Healthcare Leadership & Management 3
- NUR 4169 Evidence-Based Practice for Baccalaureate Prepared Nurse 3
- NUR 4634C Population Health 3

Total Core Courses: 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 can be selected from any cluster. Please contact academic advisor for required cluster courses.

Cluster/Elective course availability will vary semester to semester and may include, and are not limited to:
- NSP 4485 An Interdisciplinary Perspective on HIV 3
- NSP 4545 Substance Abuse Across Lifespan 3
- NUR 3826 Ethical/Legal Aspects of Nursing & Health Care 3
- NUR 4286 Geriatric Nursing 3
- NUR 4128 Pathophysiology/Pharmacology Updates 3
- NUR 4069 Health Assessment for Registered Nurses 3

Total Cluster Courses: 15

Total of Core and Cluster Courses: 30
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 advisor: Annette Mason via email at amason@health.usf.edu to request the College of Public Health Career Guide. Students may review the broad range of public health professions and also plan an undergraduate program that will meet the College’s admission requirements for graduate work. 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 courses.

The USF College of Public Health offers a Bachelor’s of Science in Public Health, several 5-Year Undergraduate Accelerated Entry to the Master’s in Public Health and a General Public Health Minor.

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 2.00. (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 2.00 in USF coursework.
3. Complete the Foreign Language Entrance Requirement if entering USF fall semester, 1987 or later.
4. Students enrolling in a college must satisfy BOG Regulation 6.017 (6A 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 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. Physical Education coursework is limited to 2 semester hours.
7. ROTC courses are limited to 9 semester hours.
8. None of the 20 credits may be taken in the student’s major as S/U unless S/U is the only grading option. Coursework fulfilling the Gordon Rule requirement may not be taken S/U.
9. The Audit option is available only during the first 5 days of classes.
10. 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.
11. “D” grades are not acceptable in the major.
12. Complete all major course requirements.
13. Complete a minimum of 48 hours of upper-level courses (numbered 3000 or above).
14. Thirty (30) of the last 60 semester hours must be completed at USF to fulfill the residency requirement.

• PUBLIC HEALTH (PUB) (CIP=51.2201)

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

<table>
<thead>
<tr>
<th>Core Curriculum:</th>
<th>36 hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Prerequisites:</td>
<td>6 hours</td>
</tr>
<tr>
<td>Lower Level Electives:</td>
<td>18 hours</td>
</tr>
</tbody>
</table>

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 & 3 Quantitative Reasoning
3 Natural Science (Life Science)
3 Natural Science (Physical Science)
6 Social and Behavioral Sciences

Prerequisites: (6 hours)

PHI 1600 Introduction to Ethics or equivalent course
ENC 2210 Technical Writing or equivalent course
Lower Level Electives:   (18 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 / Visits (Two 3 credit courses)

Public Health Electives (Choose 4 courses = 12 hours)
HSC 3541 Human Structure and Function
HSC 4134 Prevention of Mental Illness
HSC 4172 Women’s Health: A Public Health Perspective
HSC 4580 Foundations of Food Safety
HSC 4504 Foundations of Public Health Immunology
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
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.

5-Year Undergraduate Accelerated Entry for 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 a 3.00 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
Fast Track for Honors BMS, ISS and INS Students

Undergraduate students in Honors programs will be eligible to apply for admission to selected graduate degree programs in public health during their senior year. This fast track format will allow eligible seniors to complete up to 20 graduate credits in public health which will count toward the Bachelor’s degree as well as a Master of Public Health (MPH) or Master of Science in Public Health (MSPH). These graduate degrees vary in credit hours. Application deadline for these programs is June 1 for guaranteed consideration. Applications will be accepted during the junior year. A minimum score of 450 for the verbal and 550 for quantitative sections of GRE, good standing in Honors program, senior status, and 2 letters of recommendation from undergraduate faculty are required. For further information: http://publichealth.usf.edu/fasttrack.html

(4 + 1) Environmental and Occupational Health

This program provides opportunities for students to enroll in a MPH or MSPH program in the College of Public Health 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 MPH or MSPH. Admission requirements include minimum verbal score of 450 and minimum quantitative score of 550 on the Graduate Record Exam (GRE) General Test, or a mean MCAT of 8, good academic standing in the undergraduate program, senior status at the start of the program, two letters of recommendation from undergraduate faculty, transcripts from all institutions of higher learning, a one-page career goal statement, approval by the Departmental Student Affairs and Admission Committee; and approval by the College and Graduate School. Contact: Annette Mason, (813) 974-9135; email: amason@health.usf.edu.

General Public Health Minor

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 3
- HSC 4551 Survey of Human Disease 3
- PHC 4030 Introduction to Epidemiology 3

Electives (9 credit hours):

- HSC 2100 Contemporary Health Science 3
- HSC 2130 Sex, Health and Decision Making 3
- PHC 3302 Introduction to Environmental & Occupational Health 3
- HSC 3541 Human Structure and Function 3
- PHC 4069 Biostatistics in Society 3
- HSC 4134 Prevention of Mental Illness 3
- HSC 4172 Women’s Health: A Public Health Perspective 3
- HSC 4211 Health, Behavior and Society 3
- PHC 4406 Pop Culture, Vices and Epidemiology 3
- HSC 4504 Foundations of Public Health Immunology 3
- HSC 4537 Medical Terminology 3
- PHC 4542 Stress, Health and College Life 3
- HSC 4580 Foundations of Food Safety 3
- HSC 4579 Foundations of Maternal and Child Health 3
- HSC 4624 Foundations of Global Health 3
- PHC 4031 Emerging Infectious Diseases 3
- PHC 4931 Health Care Ethics 3
Certificate Programs

Students who have completed their Bachelor’s degree may register for certificates in Disaster Management; Health Management and Leadership; Infection Control; Social Marketing and Public Health; Diasporas and Health Disparities (with Africana Studies); Safety Management; Violence and Injury: Prevention and Intervention; Epidemiology; Interdisciplinary Women’s Health; Maternal and Child Health; Public Health Policy and Programs; Public Health Generalist; Humanitarian Assistance; and Biostatistics.

The GRE is not required for certificate programs. However, certificates may have other specific requirements. Refer to the College of Public Health’s website: [http://health.usf.edu/publichealth/undergrad/index.htm](http://health.usf.edu/publichealth/undergrad/index.htm) for information on certificate programs.

Contact the USF Office of Graduate Certificates, (813) 974-2442 [http://gradcerts.usf.edu/](http://gradcerts.usf.edu/) for application forms.

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)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHC 4101</td>
<td>Introduction to Public Health</td>
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</tr>
<tr>
<td>HSC 4551</td>
<td>Survey of Human Diseases</td>
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</tr>
<tr>
<td>PHC 4030</td>
<td>Introduction to Epidemiology</td>
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</table>

**Elective Departmental Courses** (9 credit hours)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HSC 2100</td>
<td>Contemporary Health Science</td>
<td>3</td>
</tr>
<tr>
<td>HSC 2130</td>
<td>Sex, Health and Decision-Making</td>
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</tr>
<tr>
<td>PHC 3002</td>
<td>Introduction to Environmental &amp; Occupational Health</td>
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<td>Health, Behavior and Society 3 PHC 4406 Informed Decision Making</td>
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<td>HSC 4573</td>
<td>Foundations of Food Safety</td>
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<tr>
<td>HSC 4579</td>
<td>Foundations of Maternal and Child Health</td>
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<tr>
<td>HSC 4624</td>
<td>Foundations of Global Health</td>
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<tr>
<td>HSC 4630</td>
<td>Understanding U.S. Health Care</td>
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</tr>
<tr>
<td>HSC 4631</td>
<td>Critical Issues in Public Health</td>
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<tr>
<td>PHC 4720</td>
<td>Foundations of Professional Writing in Public Health</td>
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<td>PHC 4931</td>
<td>Health Care Ethics</td>
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<tr>
<td>PHC 4942</td>
<td>Field Experience in Public Health</td>
<td>3</td>
</tr>
<tr>
<td>HSC 4933</td>
<td>Special Topics in Public Health**</td>
<td>3</td>
</tr>
</tbody>
</table>
Contemporary Health Issues in HPM
Emerging Infectious Diseases
Foundations of Infection Control

**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 you meet with an advisor in the College of Public Health early to verify coursework for a certificate.

The undergraduate certificate will provide a broad foundation of Homeland Security and Emergency Management for individuals interested in pursuing a career in local, state or national government, military or in the global arena.
The undergraduate certificate consists 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/nondegree seeking.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. Except for the undergraduate student selecting the Accelerated Health Education program or the Fast Track for Honors program, all applicants should have completed or be in their last semester of completing the Bachelor's degree prior to applying to this College. All departments, except the Department of Epidemiology and Biostatistics, accept the MCAT score in lieu of the GRE for admission. The GMAT may be submitted for the Department of Health Policy and Management. Advisors in the College assist undergraduate students with career planning and selecting undergraduate coursework. For specific information, request a College of Public Health Catalog and Career Guide followed by an appointment with the College advisor.

Advising Office
The College of Public Health is located facing Bruce B. Downs Boulevard at the Northwest corner of the USF Campus near the Fletcher Avenue intersection. The Advising office is in the College of Public Health (CPH) Room 1039.
Call toll free 1-888-USF-COPH or locally (813) 974-9135 for the Public Health Career Guide, a copy of the upcoming Schedule of Classes which can also be found on the web at: http://health.usf.edu/publichealth/academicaffairs/registration/undergraduate.html.

Non-Degree Registration
Students who have completed the Bachelor's degree may register for up to 12 hours as "non-degree" students while in the process of preparing to apply to the College: Please visit: publichealth.usf.edu/nondegree.html. Contact: Annette Mason; amason@health.usf.edu, (813) 974-9135 for more information.

Address: 13201 Bruce B. Down Blvd, Tampa, FL 33612-3805; Mail point - MDC 56
Office Hours: 8am–5pm, Monday through Friday
Contact Email: amason@health.usf.edu
Web Address: http://health.usf.edu/publichealth/academicaffairs/registration/undergraduate.html
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.

SCHOOL OF ARCHITECTURE & COMMUNITY DESIGN

Location/ Phone: HMS 301 Tampa Campus; (813) 974-4031
Web Address: http://arch.usf.edu/
Contact E-mail: information@arch.usf.edu

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 (see below):
M. Arch. 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 M. Arch. 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, M. Arch. 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:

a. ARC 2211 Introduction to Architecture
   3 cr. hrs.

b. ARC 2131 Introduction to Architectural Design/Graphics
   4 cr. hrs.

c. creative art or design courses
   8 cr. hrs. (minimum)

d. an undergraduate course in Calculus;

f. an undergraduate course in Computer-Aided Drafting (CAD)

g. a GRE Test Score.

M. Arch. 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 M. Arch. 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; and

c. an undergraduate course in Computer-Aided Drafting (CAD)

d. a GRE Test Score.

Architecture Courses for undergraduate not seeking the M. Arch. degree

The School encourages other University students, not pursuing the M. Arch. degree, to enroll in its numerous undergraduate and graduate courses as electives within their individual majors. The School offers ARC 4784 – “The City” as an approved Exit course, as well as 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 M. Arch. 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 M. Arch. 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. 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: Robert MacLeod; Associate Professors: S. Cooke, T. Green, M. Halfants, D. Powers, N. Sanders; Assistant Professors: S. Bassett, Levent Kara, V. Mehta, S. Russell, M. Weston; Research Associate Professor: S. Landry; Associate in Research: J. Griffin, T. Johnson.

BACCALAUREATE-LEVEL
DEGREE PROGRAMS

The College of The Arts offers four undergraduate degrees:
Bachelor of Arts (B.A.) in Art Studio or Art History, Dance, Music Studies, and Theatre
Bachelor of Music (B.M.) in Music
Bachelor of Fine Arts (B.F.A) in Studio Art, or Dance Performance
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.

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.

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

Advising Office
Tampa Campus: College of The Arts (FAH), Room 120, (813) 974-3660.
Office Hours
Office hours are 8 a.m. - 5 p.m., Monday - Friday.

General Requirements for B.A. Degrees
Within the College of The Arts

1. All B.A. 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. In the College of The Arts at the discretion of the disciplines, must take six fine arts credit hours in a field other than the major discipline (Dance, 3 credits; BA Music Studies, 6 credits; BM Music, 3 credits). Transfer of degree fine arts credits must be evaluated by an advisor. Fine Arts courses for this requirement may be taken as S/U grading at the discretion of the instructor.
5. 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.
6. A maximum of four credit hours of elective Physical Education credits taken at USF may be counted as general elective credit toward all degrees.
7. Students must satisfactorily meet the writing and computation course requirement of Board of Governor’s Regulation 6.017 (6A Gordon Rule).

8. Students applying for a B.A. degree must demonstrate competency in a foreign language as described under Foreign Language Competency Policy of this catalog.

9. For degree programs, see requirements listed under each School.

10. A minimum of 20 credit hours in the major unit must be earned in residence. This requirement, however, may be waived by the school based on examination (e.g., portfolio review, audition). 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.

Waiver of prerequisite course work totaling no more than 12 credit hours in the major or College requirements is possible by demonstration of competence. Unless credit is awarded by approved official tests, i.e., AP, CLEP, the credit hours must be made up according to school or college recommendations. A faculty committee conducts waiver reviews. Specific questions concerning program requirements for all degrees in the College or other related problems should be directed to the College of The Arts.

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.

SCHOOL OF ART & ART HISTORY

The School of Art & Art History offers the Bachelor of Fine Arts (BFA) degree in Studio Art, the Bachelor of Arts (BA) degree in Studio Art, and the Bachelor of Arts (BA) degree in Art History. The two studio curricula (BA - studio concentration and BFA) 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 Studio programs is by portfolio. 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/.

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 (BA - 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.

Candidates for admission into the two studio programs must successfully complete a portfolio review at a posted review date in order to be admitted. 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.

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 BA 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)

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
- ART X301 Drawing II or ART X330 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 B.A. Degree in Studio Art

The following courses apply to the B.A. degree in Art Studio:

I. Art Preparation (All coursework in the School of Art & Art History must have a grade of “C-” or better to satisfy program requirements.)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARH 2050</td>
<td>History of Visual Arts I*</td>
<td>3</td>
</tr>
<tr>
<td>ARH 2051</td>
<td>History of Visual Arts II*</td>
<td>3</td>
</tr>
<tr>
<td>ART 2201C</td>
<td>Concepts and Practices I**</td>
<td>4</td>
</tr>
<tr>
<td>ART 2203C</td>
<td>Concepts and Practices II**</td>
<td>4</td>
</tr>
<tr>
<td>ART 2301C</td>
<td>Beginning Drawing</td>
<td>3</td>
</tr>
<tr>
<td>ART 3310C</td>
<td>Intermediate Drawing</td>
<td>3</td>
</tr>
</tbody>
</table>

Total 20 hours

*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 a satisfactory portfolio review. Refer to our website at http://www.art.usf.edu for the scheduled review date.

II. Beginning Studio Workshops

A minimum of 12 hours from the following Beginning Studio Workshops is required. 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.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 2400C</td>
<td>Beginning Printmaking</td>
<td>3</td>
</tr>
<tr>
<td>ART 2500C</td>
<td>Beginning Painting</td>
<td>3</td>
</tr>
<tr>
<td>ART 2701C</td>
<td>Beginning Sculpture</td>
<td>3</td>
</tr>
<tr>
<td>ART 2750C</td>
<td>Beginning Ceramics</td>
<td>3</td>
</tr>
<tr>
<td>ART 3612C</td>
<td>Digital Video and Electronic Arts</td>
<td>3</td>
</tr>
<tr>
<td>PGY 2401C</td>
<td>Beginning Photography</td>
<td>3</td>
</tr>
</tbody>
</table>

Total 12 hours

III. Intermediate Studio Workshops

A minimum of 6 hours from the following:

- 3000-Level Studio

Total 6 hours

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

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
A minimum of 12 hours in the following history courses:

ARH 4100 Prehistoric & Ancient 4
ARH 4170 Greek & Roman 4
ARH 4200 Medieval 4
ARH 4301 Renaissance 4
ARH 4350 Baroque and Rococo 4
ARH 4430 19th Century 4
ARH 4450 20th Century** 4
ARH 3475C Contemporary Issues in Art 4
ARH 4520 African 4
ARH 4530 Asian Art 4
ARH 4800 Critical Studies 4
ARH 4930 Art History: Selected Topics*** 4

Total 12 hours
*Four (4) hours may be taken in either critical studies seminar ARH 4800 or Directed Reading ART 4900.
**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

Extended Studies*

Total 2 hours

*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.

Total 55 hours

Total Semester Hours for the B.A. degree in Art Studio

Please note under General Education that the Historical Perspectives must be satisfied with History of Visual Arts I, ARH 2050 and History of Visual Arts II, ARH 2051, and that Fine Arts must be satisfied with Concepts and Practices I, ART 2201 or Concepts and Practices II, ART 2203.

FKL General Education Core Curriculum* 27
EXIT Requirements 6
Art Requirements 55
Free Electives (Maximum Art 9 hours) 32

Total 120 hours

*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)

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 X330 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 B.F.A. Degree in Studio Art

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 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 limited access 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

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARH 2050</td>
<td>History of Visual Arts I*</td>
<td>3</td>
</tr>
<tr>
<td>ARH 2051</td>
<td>History of Visual Arts II*</td>
<td>3</td>
</tr>
<tr>
<td>ART 2201C</td>
<td>Concepts and Practices I**</td>
<td>4</td>
</tr>
<tr>
<td>ART 2203C</td>
<td>Concepts and Practices II**</td>
<td>4</td>
</tr>
<tr>
<td>ART 2301C</td>
<td>Beginning Drawing</td>
<td>3</td>
</tr>
<tr>
<td>ART 3310C</td>
<td>Intermediate Drawing</td>
<td>3</td>
</tr>
</tbody>
</table>

Total 20 hours

*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

<table>
<thead>
<tr>
<th>Level</th>
<th>Studio</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>2000</td>
<td>Level 2-D Studio</td>
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<tr>
<td>2000</td>
<td>Level 3-D Studio</td>
<td>3</td>
</tr>
<tr>
<td>2000</td>
<td>Level Specialization</td>
<td>3</td>
</tr>
<tr>
<td>2000</td>
<td>Level Elective Studio</td>
<td>3</td>
</tr>
</tbody>
</table>

Total 12 hours

III. 3000 Level Studio

<table>
<thead>
<tr>
<th>Level</th>
<th>Studio</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>3000</td>
<td>Level Specialization</td>
<td>12</td>
</tr>
<tr>
<td>3000</td>
<td>Level Non-Specialization</td>
<td>3</td>
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<tr>
<td>3000</td>
<td>Elective Studio</td>
<td>3</td>
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</tbody>
</table>

*Total 18 hours

IV. 4000 Level Studio

<table>
<thead>
<tr>
<th>Level</th>
<th>Studio</th>
<th>Hours</th>
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<tbody>
<tr>
<td>4000</td>
<td>Level Specialization</td>
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<tr>
<td>3000 or 4000</td>
<td>Level Elective Studio</td>
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</tbody>
</table>

Total 9 hours

V. Expanded Context Courses

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.

Total 3 hours

VI. Art History

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>ARH 4450</td>
<td>20th Century</td>
<td>4</td>
</tr>
<tr>
<td>ARH 3475C</td>
<td>Contemporary Issues in Art</td>
<td>4</td>
</tr>
</tbody>
</table>

Total 4 hours
VII. Additional Requirements

Total 12 hours

ART 3939 Real World 3
ART 4940 Extended Studies* 3
ART 4970 Senior Thesis** 4

Total 10 hours

Total Art 84 hours


**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 84
Free Electives 3

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)

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 X330 or ART X205 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

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 B.A. Degree in Art History

The following courses are necessary for completing a B.A. degree in Art History:

I. Art Preparation (All coursework in The School of Art & Art History must have a grade of “C-” or better to satisfy program requirements.)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARH 2050</td>
<td>History of Visual Arts I</td>
<td>3</td>
</tr>
<tr>
<td>ARH 2051</td>
<td>History of Visual Arts II</td>
<td>3</td>
</tr>
<tr>
<td>ART 2201C</td>
<td>Concepts and Practices I</td>
<td>4</td>
</tr>
<tr>
<td>ART 2301C</td>
<td>Beginning Drawing</td>
<td>3</td>
</tr>
</tbody>
</table>

Total 13 hours

*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.

Plus: Minimum of 24 hours in the following history courses:

II. Art History Survey

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARH 4100</td>
<td>Prehistoric &amp; Ancient</td>
<td>4</td>
</tr>
<tr>
<td>ARH 4170</td>
<td>Greek &amp; Roman</td>
<td>4</td>
</tr>
<tr>
<td>ARH 4200</td>
<td>Medieval</td>
<td>4</td>
</tr>
<tr>
<td>ARH 4301</td>
<td>Renaissance</td>
<td>4</td>
</tr>
</tbody>
</table>
COLLEGE OF THE ARTS

UNIVERSITY OF SOUTH FLORIDA 2012-2013 UNDERGRADUATE CATALOG

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARH 4350</td>
<td>Baroque and Rococo</td>
<td>4</td>
</tr>
<tr>
<td>ARH 4430</td>
<td>19th Century</td>
<td>4</td>
</tr>
<tr>
<td>ARH 4450</td>
<td>20th Century</td>
<td>4</td>
</tr>
<tr>
<td>ARH 3475C</td>
<td>Contemporary Issues in Art</td>
<td>4</td>
</tr>
<tr>
<td>ARH 4520</td>
<td>African</td>
<td>4</td>
</tr>
<tr>
<td>ARH 4530</td>
<td>Asian Art</td>
<td>4</td>
</tr>
<tr>
<td>ARH 4930</td>
<td>Art History: Selected Topics*</td>
<td>4</td>
</tr>
</tbody>
</table>

**Total 24 hours**

*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**

ARH 4800  Critical Studies in Art History and/or
ART 4900  Directed Reading

**Total 12 hours**

**Students may substitute 4 hours of ARH 4800 Critical Studies for 4 hours of 4000 level art history survey by permission of the instructor.

IV. Plus

Extended Studies: required of all majors 2
(London Middlesex Program, Paris Program, Public Art, Museum Internships, Community Art, Artists Internship/Apprenticeships, Art History Apprenticeships)

**Total 2 hours**

V. Recommendations

Students are encouraged to take additional credits in Art History critical studies courses and Art History survey courses.

**Total Art History 51 hours**

Total semester Hours for the B.A. degree in Art History

FKL General Education Core Curriculum* 27
Exit Requirements 6
Art Requirements 51
Free Elective (Maximum Art 9 hours) 36

**Total 120 hours**

*FKL “Humanities” will be satisfied by ARH 2050, History of Visual Arts I and ARH 2051, History of Visual Arts II, and FKL “Fine Arts” will be satisfied by ART 2201C Concepts and Practices I.

Note: All Students earning a BA degree in Art History must complete the Foreign Language Exit Requirement.

Requirements for the Minor in Art

**Studio Concentration:** Total of 26 minimum hours required

I. Art Area Preparation

ARH 2050  History of Visual Arts I 3
ARH 2051  History of Visual Arts II 3
ART 2201C  Concepts and Practices I 4
ART 2203C  Concepts and Practices II 4
ART 2301C  Beginning Drawing 3

**Total 17 hours**

II. Art Studio

Beginning Studio Workshop 6
Intermediate Studio Workshop 3
or
Theme Studio 3

**Total 9 hours**

**Art History Concentration:** 26 minimum hours required

I. Art History Preparation

ARH 2050  History of Visual Arts I 3
ARH 2051  History of Visual Arts II 3
ART 2201C  Concepts and Practices I 4
or
ART 2203C  Concepts and Practices II 4
II. Art History

Total 10 hours

Art History Survey 16

Total 16 hours

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 Elfred, 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. Cornejo, 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. Kronsoble, M. Larsen, C. Lyman, B. Marsh; Associate Professor Emeriti: D. Wright, T. Wujcik; University Librarian Emerita: L. McRae.

SCHOOL OF THEATRE & DANCE

The dance program in the School of Theatre & Dance offers professional preparation through a curriculum of study within two degree options: B.F.A. in Dance Performance and B.A. in Dance Studies. 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., 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)

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.F.A. in Dance Performance
Any 24 credit hours from the following 30 hours will be accepted toward the major.

DAN X610 (3) or DAN X600 (3)
DAN X601 (3) or DAN X611 (3)
DAA X610 (2)
DAA X611 (2)
DAA X680 (2) - or any lower level Repertory course in the X400-X400 series up to 4 credit hours.
DAA X681 (2) - or any lower level Repertory course in the X400-X400 series up to 4 credit hours.
DAA X200-X209 (8) - Up to 8 credit hours of any lower level Ballet Technique courses within the X200-X209 taxonomy.
DAA X100-X109 (8) - 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 dance advisor at time of entrance.

Requirements for the B.F.A. Degree in Dance
The BFA in Dance Performance (Ballet or Modern emphasis) 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 BFA will develop and present solo and group Senior Choreographic Projects.

The BFA 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 Focus (DAM)**

<table>
<thead>
<tr>
<th>Studio Technique (28 semester hours)</th>
<th></th>
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</thead>
<tbody>
<tr>
<td>DAA 3209 Ballet III</td>
<td>6</td>
</tr>
<tr>
<td>DAA 3109 Modern III</td>
<td>6</td>
</tr>
<tr>
<td>DAA 4111 Modern IV</td>
<td>8</td>
</tr>
<tr>
<td>DAA 3394 World Dance</td>
<td>2</td>
</tr>
<tr>
<td>Elective Dance Technique</td>
<td>6</td>
</tr>
</tbody>
</table>

**Creative Studio (17 semester hours)**

<table>
<thead>
<tr>
<th>Creative Studio</th>
<th>(17 semester hours)</th>
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<tbody>
<tr>
<td>DAA 3624 Dance Improvisation</td>
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<tr>
<td>DAA 3614 Choreography I</td>
<td>2</td>
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<tr>
<td>DAA 3615 Choreography II</td>
<td>2</td>
<td></td>
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<tr>
<td>DAA 4616 Choreography III</td>
<td>2</td>
<td></td>
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<tr>
<td>DAA 4617 Choreography IV</td>
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<td>DAA 3686 Jr. Performance Project*</td>
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<td>DAA 4685/3654 Performance/Repertory*</td>
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<td>DAA 4694 Senior Choreographic Project</td>
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<tr>
<td>*Concurrent enrollment in Dance Technique</td>
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**Dance Theory (27 semester hours)**

<table>
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<tr>
<th>Dance Theory</th>
<th>(27 semester hours)</th>
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<tbody>
<tr>
<td>DAN 2160 Entry Seminar</td>
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<td>DAN 3584 Practicum in Dance Production</td>
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<tr>
<td>DAN 3614 Music for Dance I</td>
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</tr>
<tr>
<td>DAN 3615 Music for Dance II</td>
<td>2</td>
<td></td>
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<td>DAN 4404 Laban Movement Analysis</td>
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<td>DAN 3714 Dance Kinesiology</td>
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<td>DAN 4134 Dance History Through the 19th Century</td>
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<td>DAN 4135 20th Century Dance History</td>
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<td>DAE 4340 Dance Pedagogy: Secondary Curriculum and Methods</td>
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<td>DAE 4310 Dance Pedagogy: Pre-School to Elem.</td>
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<tr>
<td>DAN 4181 Dance Senior Seminar</td>
<td>2</td>
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</tr>
<tr>
<td>TPA 2211/2291L Introduction to Technical Theatre II/ Technical Theatre Lab II</td>
<td>4</td>
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</tr>
<tr>
<td>Free Electives</td>
<td>9</td>
<td></td>
</tr>
</tbody>
</table>

**Ballet Focus (DAB)**

<table>
<thead>
<tr>
<th>Studio Technique (30 semester hours)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>DAA 3209 Ballet III</td>
<td>6</td>
</tr>
<tr>
<td>DAA 4211 Ballet IV</td>
<td>8</td>
</tr>
<tr>
<td>DAA 3294 Ballet Variations/Pointe</td>
<td>2</td>
</tr>
<tr>
<td>DAA 3109 Modern III</td>
<td>6</td>
</tr>
<tr>
<td>DAA 3394 World Dance</td>
<td>2</td>
</tr>
<tr>
<td>Elective Dance Technique</td>
<td>6</td>
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</table>

**Creative Studio Studies (17 semester hours)**

<table>
<thead>
<tr>
<th>Creative Studio Studies</th>
<th>(17 semester hours)</th>
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</tr>
</thead>
<tbody>
<tr>
<td>DAA 3624 Dance Improvisation</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>DAA 3614 Choreography I</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>DAA 3615 Choreography II</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>DAA 4616 Choreography III</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>DAA 4617 Choreography IV</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>DAA 3686 Jr. Performance Project*</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>DAA 4685/3654 Performance/Repertory*</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>DAA 4694 Senior Choreographic Project</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>*Concurrent enrollment in Dance Technique</td>
<td></td>
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</tr>
</tbody>
</table>

303
Dance Theory (27 semester hours)

DAN 2160 Entry Seminar 2
DAN 3614 Music for Dance I 2
DAN 3615 Music for Dance II 2
DAN 4404 Laban Movement Analysis 3
DAN 3714 Dance Kinesiology 3
DAN 4134 Dance History Through the 19th Century 3
DAN 4135 20th Century Dance History 3
DAE 4310 Dance Pedagogy: Pre-school and Elementary Methods 3
or
DAE 4340 Dance Pedagogy: Secondary Curriculum and Methods 3
DAN 4181 Dance Senior Seminar 2
TPA 2211/2291L Introduction to Technical Theatre II/Technical Theatre Lab II 4
Free Electives 7

• DANCE (DAS) (CIP = 50.0301 – Track 1 of 2)
  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 Studies
  Any 24 credit hours from the following 30 hours will be accepted toward the major.
  DAN X603 (2) or DAN X610 (3)
  TPA X200 (3) or TPA X223 (3) or TPA X232 (3)
  DAA X200-X209 (9) - Up to 10 credit hours of any lower level Ballet Technique courses within the X200-X209 taxonomy.
  DAA X100-X109 (9) - 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 B.A. Degree in Dance Studies
  The B.A. in Dance Studies 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 Studies track.
Coursework to be taken at USF

**Studio Technique (20 semester hours)**

- DAA 3108 Modern II 6
- DAA 3208 Ballet II 6
- DAA 3109 Modern III 6
- or
- DAA 3209 Ballet III 6
- DAA 3394 World Dance 2

**Creative Studio Studies (13 semester hours)**

- DAA 3624 Dance Improvisation 2
- DAA 3614 Choreography I 2
- DAA 3615 Choreography II 2
- DAA 4616 Choreography III 2
- DAA 4617 Choreography IV 2
- DAA 3686 Jr. Performance Project* 1
- DAA 4685/3654 Performance/Repertory* 1
- DAN 4906 Independent Research Project 1

*Concurrent enrollment in Dance Technique

**Dance Theory (23 semester hours)**

- DAN 2160 Entry Seminar 2
- DAN 3614 Music for Dance I 2
- DAN 3615 Music for Dance II 2
- DAN 3714 Dance Kinesiology 3
- DAN 4134 Dance History Through the 19th Century 3
- DAN 4135 20th Century Dance History 3
- DAN 4162 Research in Dance 2
- DAN 4181 Dance Senior Seminar 2
- TPA 2211/2291L Introduction to Technical Theatre II/Technical Theatre Lab II 4

Focused Electives (15-17 semester hours)

**Requirements for the Dance Minor**

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.

**Studio Technique (10 semester hours)**

Select 10 credits from:

- DAA 2205 Ballet I 2
- DAA 3208 Ballet II 3
- DAA 3209 Ballet III 3
- DAA 4211 Ballet IV 4
- DAA 2105 Modern Dance I 2
- DAA 3108 Modern Dance II 3
- DAA 3109 Modern Dance III 3
- DAA 4111 Modern Dance IV 4
- DAA 2504 Jazz Dance 2
- DAA 4930 Special Topics in Dance 2

(Studio Dance courses may be repeated once toward the Dance Minor.)

**Creative Studio Studies (4 semester hours)**

Select 4 credits from:

- DAA 3624 Dance Improvisation 2
- DAA 3614 Choreography I* 2
- DAA 3615 Choreography II* 2

*Music for Dance is a pre-requisite for Choreography and instructor approval.

**Dance Theory (6 semester hours)**

Select 6 credits from:

- DAN 2100 Introduction to Dance 3
- DAN 4134 Dance History Through the 19th Century 3
DAN 4135  20th Century Dance History  3
Dance Electives (4 semester hours)  TOTAL  24

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” must be repeated and a “C” grade or better earned. Note: The
student choosing a Dance Minor must achieve a “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.

For other non-major requirements see both The Arts College requirements and the university’s General
Distribution and graduation requirements.

Visiting Artists and Artists-in-Residence
The School of Theatre & Dance believes in the ongoing influence of guest artists as choreographers, teachers for
master classes, residencies and performers. The programs provide numerous opportunities to enhance the students’
artistic awareness of professional possibilities. Recent Artists-in-Residence have included Trisha Brown, Bill T.
Jones, Doug Varone, and Jennifer Archibald.

Theatre and Dance Faculty
Director: M. Powers; Professors: P. Finelli, B. W. Lee, C. Steele, ; Associate Professors: F. Green, G.B. Stephens, J.
Travers; Assistant Professor: M. Foley, A. Carroll, D. Arreola, A. Scott; Instructor: D. Frankel,, J. Winfield, M. BERTCH;
Lecturer: J. Parks; Academic Advisor/Instructor: M. L. Morris; Professors Emeriti: P. Massie, N. Cole, D. Calandra, G.
Warren; Associate Professor Emerita: S. Robinson

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 (BM) 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.

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 BS degrees (4000 for BM 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.
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.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>MUT 1111</td>
<td>Music Theory</td>
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<tr>
<td>MUT 1112</td>
<td>Music Theory</td>
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<tr>
<td>MUT 2116</td>
<td>Music Theory</td>
</tr>
<tr>
<td>MUT 2117</td>
<td>Music Theory</td>
</tr>
<tr>
<td>MUT 1241</td>
<td>Aural Theory</td>
</tr>
<tr>
<td>MUT 1242</td>
<td>Aural Theory</td>
</tr>
<tr>
<td>MUT 2246</td>
<td>Advanced Aural Theory</td>
</tr>
<tr>
<td>MUT 2247</td>
<td>Advanced Aural Theory</td>
</tr>
<tr>
<td>MUN XXXX</td>
<td>Chamber Music Ensemble, 4 semester hours</td>
</tr>
<tr>
<td>MVX 1X1X</td>
<td>Secondary Applied Music Courses, 2-4 semester hours</td>
</tr>
<tr>
<td>MVX 2X2X</td>
<td>Secondary Applied Music Courses, 2-4 semester hours</td>
</tr>
<tr>
<td>MVX 1211</td>
<td>Secondary Piano Proficiency by Examination</td>
</tr>
</tbody>
</table>

Electives: Music credits beyond those required may be used as program electives.

Core Requirements for Performance and Acoustic & Electronic Composition Concentrations

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUT 1111 (3)</td>
<td>Music Theory</td>
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<tr>
<td>MUT 1112 (3)</td>
<td>Music Theory</td>
</tr>
<tr>
<td>MUT 1241 (1)</td>
<td>Music Theory</td>
</tr>
<tr>
<td>MUT 1242 (1)</td>
<td>Music Theory</td>
</tr>
<tr>
<td>MUH 3300 (2)</td>
<td>Music History Elective</td>
</tr>
</tbody>
</table>

Some courses may require additional prerequisites.

MUS 4935 (1) Recital Attendance
MUS 2010 (0)
Music Electives (0-13 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 (4)
  MVK 4641 (4)

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 [All must be C- or better. No “S” grades.]

<table>
<thead>
<tr>
<th>Music Theory</th>
<th>[Diagnostic Test administered at first class meeting]</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUT 1111, 1112, 2116, 2117, 4421, 4571</td>
<td>.......................................................... 18</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Aural Theory</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUT 1241, 1242, 2246, 2247</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Music History</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUH 3300 Medieval and Renaissance [PR for MUH 3301 and 3302]</td>
</tr>
<tr>
<td>MUH 3301 Baroque and Classic</td>
</tr>
<tr>
<td>MUH 3302 Romantic through Contemporary</td>
</tr>
<tr>
<td>Elective</td>
</tr>
<tr>
<td>MUH 2020, 2051, 4058, MUH 4372 (satisfies EXIT-WI), MUH 4801 (0-3)*</td>
</tr>
</tbody>
</table>
| [*0 credit if course taken to satisfy General Education or EXIT] | ...........

<table>
<thead>
<tr>
<th>Senior Seminar</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS 4935 [“S/U” grade only]</td>
</tr>
</tbody>
</table>

**APPLIED STUDIES:** 14 credit hours [All must be C- or better. No “S” grades.]

<table>
<thead>
<tr>
<th>Basic Conducting</th>
<th>MUG 3104 [PR: MUT 1112]</th>
<th>2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Applied Major (Studio)</td>
<td>MV? 131X, 232X [2 terms-each level]</td>
<td>8</td>
</tr>
</tbody>
</table>

310
MUSIC ELECTIVES: 2 credit hours [All must be C- or better. 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 [All must be C- or better. 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)
[PR for EM courses; Gen Ed Fine Arts]
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% of final grade)
2. Recital (30% of final grade)
3. Participation in the Senior Project Concert (15% of final grade)
4. Senior Presentation in Composition Seminar (12% of final grade)
5. Composers Orchestra composition (13% of final grade)
6. Cont’d 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 c.v. (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)**
- MUT 1111 (3)  MUT 2116 (3)  MUT 2641 (2)  MUT 3663 (2)
- MUT 1112 (3)  MUT 2117 (3)  MUT 2642 (2)  MUT 3664 (2)
- MUT 1241 (1)  MUT 2246 (1)  MUT 3353 (3)
- MUT 1242 (1)  MUT 2247 (1)  MUT 3354 (3)

**Music History (11)**
- MUH 3300 (2)  MUH 3301 (3)  MUH 3302 (3)  MUH 4801 (3)

**Conducting (2)**
- MUG 3104

**Senior Seminar (1)**
- MUS 4935 (1)

**Recital Attendance (0)**
- MUS 2010 (0)

**Ensemble:**
Performance - All students enrolled in applied music for 2 or 3 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**
Applied music (major) through the 4000 level (min. of 24 hours).

- **MUSIC EDUCATION (MUE) (CIP = 13.1312)**

**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
**MUSIC (51 credit hours)**

**Music Theory**
- MUT 1111, 1112, 2116 (MUT 1112 is the prerequisite for MUG 3104 and MUH 3300)  
  9

**Aural Theory**
- MUT 1241, 1242, 2246  
  3

**Keyboard Skills**
- MVK 1111, 1121, 2111, 2121  
  0-8

**Conducting**
- MUG 3104 Basic  
- MUG 3108 Advanced Conducting  
  2

**Music History**
- MUH 2XXX American Roots or Non-Western Music (see FKL Fine Arts)  
  3
- MUH 3300 Medieval and Renaissance (PR for MUH 3301 and MUH 3302)  
  2
- MUH 3301 Baroque and Classic  
  3
- MUH 3302 Romantic through Contemporary  
  3

**Music Electives**
- 7

**Applied Principal (Studio) (2 terms each level)**
- MVX 131X, 232X, 333X (culminating in junior recital)  
- MUN 3XXX Major Ensemble (concurrent registration with studio)  
  12

**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 X085 Introduction to Diversity for Educators 3
- EME X040 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 3
- MUE 3422 Wind Techniques (1+1) 2
- MUE 3423 String Techniques 3
- MUE 3475 Percussions Techniques (or MUN 3443 Percussion Ensemble) 1
- MUE 3414 Creative Performance Chamber Ensemble(1+1) 2
- MUE 3401 Progressive Music Education Methods 1
- MUE 3425 Progressive Music Education Methods 2
- MUE 4311 General Music Methods (includes pre-internship) 3
- MUE 4331 Choral Methods or MUE 4332 Instrumental Methods 3
  (includes pre-internship)
- 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)
  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
- MUT x112 Music Theory
- MUT x116 Music Theory
- MUT x117 Music Theory
- MUT x241 Aural Theory
- MUT x242 Aural Theory
- MUT x246 Advanced Aural Theory
- MUT x247 Advanced Aural Theory
- 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
  - MVK x111, x112, and x122
  - MVK x111r, x112r, x121r, and x121r
  - 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 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 & DANCE

USF is fully accredited by the National Association of Schools of Theatre (NAST). Through its curriculum and production program, Theatre offers seriously interested students the opportunity to prepare within a liberal arts atmosphere for a professional career in the theatre or to continue their studies at the graduate level.

For over 30 years, our exclusively undergraduate program has prepared critically aware and skilled theatre practitioners.

The school’s mission is to educate students in the art of theatre, to conduct original research, and to present challenging productions to the university and Tampa Bay communities.

Students may graduate with a broad-based theatre arts degree, or they may specialize in performance or design.

Special Features

1. The endowed British International Theatre Program (BRIT) brings three or more professional artists from the UK to work with upper level students for up to 6-8 weeks each spring semester. The BRIT Program is available to
advanced theatre students by audition. The program consists of master classes and/or production experience with
selected guest artists from the U.K.
2. The John W. Holloway Endowed Chair in Dance and Theatre provides funds annually for guest artist residencies. The Holloway Program provides classes and production experiences with internationally renowned artists in
design, directing, acting, writing, and musical theatre.
3. USF’s Theatre program has a formal student Exchange Program with Middlesex University in London, England.
4. The School Honors Program allows small select groups of upper-division students to work on special projects with
faculty and guest artists for up to one year. The Honors Program is available to upper level majors who have a 3.5 GPA in the major and a 3.2 overall GPA and who have achieved a comparably high level of artistic or scholarly
achievement. A 6-8 credit one-year sequence of courses is offered to students accepted into the Honors Program. The sequence progresses from a reading seminar to a guest artist practicum to a student thesis or project. With approval of director and instructor, the entire Honors sequence may substitute for one of the Theatre History/Literature requirements.
Guest artists have been working professionals from New York, San Francisco, Denver, Los Angeles, Munich, London, Tel Aviv.

Visiting Artists and Artists-in-Residence
The Theatre program at USF actively promotes guest artists on campus. A representative list of artists includes

THEATRE (TAR) (CIP = 50.0501)
Requirements for the B.A. Degree with a Major in Theatre

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  Introduction to the Theatre or any introductory course from 001-035 at the 1 or 2 level
THE X300  Script Analysis, 3 semester hours or THE X305
TPA X290  Production Involvement, 1 semester hour
THE X925  Production Involvement, 1 semester hour
TPA X200  Introduction to Technical Theatre I, 3 semester hours or TPA X210, 3 semester hours
TPP X190  Studio Theatre-Cast, 1 semester hour or TPP X110, 1 semester hour
PLUS nine hours of any combination of THE, TPA and TPP courses.

The 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:
### Core Curriculum (33 hours)

#### First Year (14 hours)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>THE 2020</td>
<td>Introduction to Theatre</td>
<td>3</td>
</tr>
<tr>
<td>TPP 2110</td>
<td>Voice-Body Improvisation</td>
<td>3</td>
</tr>
<tr>
<td>TPA 2200</td>
<td>Intro to Technical Theatre I</td>
<td>3</td>
</tr>
<tr>
<td>TPA 2290L</td>
<td>Intro to Technical Theatre Lab I</td>
<td>1</td>
</tr>
<tr>
<td>TPA 2211</td>
<td>Intro to Technical Theatre II</td>
<td>3</td>
</tr>
<tr>
<td>TPA 2291L</td>
<td>Intro to Technical Theatre Lab II</td>
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#### Second Year (8 hours)

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<tr>
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<tbody>
<tr>
<td>THE 2305</td>
<td>Script Analysis</td>
<td>3</td>
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Choice of:

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<th>Course Title</th>
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<tbody>
<tr>
<td>THE 3110</td>
<td>Theatre History I or THE 3111</td>
<td>3</td>
</tr>
<tr>
<td>TPA 2292</td>
<td>Production Involvement I</td>
<td>1</td>
</tr>
<tr>
<td>TPP 2190</td>
<td>Studio Theatre Performance I</td>
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#### Third Year (8 hours)

Choice of two Theatre History/Literature:

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<tbody>
<tr>
<td>THE 3110</td>
<td>Theatre History I</td>
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<tr>
<td>THE 3111</td>
<td>Theatre History II</td>
<td>3</td>
</tr>
<tr>
<td>THE 4174</td>
<td>New British Theatre and Drama</td>
<td>3</td>
</tr>
<tr>
<td>THE 4180</td>
<td>Theatre Origins</td>
<td>3</td>
</tr>
<tr>
<td>THE 4320</td>
<td>Theatre of Myth and Ritual</td>
<td>3</td>
</tr>
<tr>
<td>THE 4330</td>
<td>Shakespeare for the Theatre</td>
<td>3</td>
</tr>
<tr>
<td>THE 4360</td>
<td>19th Century Theatre Revolution</td>
<td>3</td>
</tr>
<tr>
<td>THE 4401</td>
<td>American Drama</td>
<td>3</td>
</tr>
<tr>
<td>THE 4434</td>
<td>Caribbean Theatre</td>
<td>3</td>
</tr>
<tr>
<td>THE 4435</td>
<td>Theatre of Pluralism</td>
<td>3</td>
</tr>
<tr>
<td>THE 4442</td>
<td>Comedy of Classic &amp; Neoclassic Stage</td>
<td>3</td>
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<tr>
<td>THE 4480</td>
<td>Drama Special Topics</td>
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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.

<table>
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<tr>
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<tr>
<td>TPA 4293</td>
<td>Production Involvement II</td>
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<td>TPP 4193</td>
<td>Studio Performance II</td>
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#### Fourth Year (3 hours)

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<tr>
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<tbody>
<tr>
<td>THE 4562</td>
<td>Contemporary Performance Theory</td>
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</tr>
</tbody>
</table>

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 (BA 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 83-85 |
| TPP Courses:                           | 3 |
| THE; TPA; TPP Courses (9 must be at upper level): | 18 |
| Free Electives                         | 14-16 |
| Total Hours                            | 32-34 |
| Total Hours                            | 120 |

#### Performance Concentration (BA Degree) (TAP)

| FKL General Education Core Curriculum: | 36 |
| Language:                              | 8-10 |
| Exit Courses:                          | 6 |
| Theatre Core:                          | 33 |
COLLEGE OF THE ARTS

UNIVERSITY OF SOUTH FLORIDA 2012-2013 UNDERGRADUATE CATALOG

Body Disciplines 3
Voice Preparation for the Actor 3
Scene Study 3
Advanced Scene Study 3
Styles of Acting 3
Additional TPP Courses 10
Free Electives 11
Total Hours 33

Design Concentration (BA Degree) (TAD)
FKL General Education Core Curriculum: 36
Language: 8-10
Exit Courses: 6
Theatre Core: 33
TPA 3007 Introduction to Design I 3
TPA 3008 Introduction to Design II 3
TPA 3208 Drafting and CAD I 3
Plus TWO
TPA 3231 Costume Construction 3
TPA 3221 Lighting Theory and Practice 3
TPA 3251 Drafting and CAD II 3
and
THE 4283 Architecture and Decor 3
THE 4264 Costume History 3
TPA 4011 Design Studio I 3
Free Electives 11-13
Total Hours 120

Requirements for a Minor in Theatre
THE 2020 Introduction to Theatre 3
TPP 2110 Voice and Body Improvisation 3
TPP 2190 Studio Theatre Performance I 1
TPA 2292 Production Involvement I 1
TPA 2200 Intro to Technical Theatre I 3
TPA 2290L Intro to Technical Theatre Lab I 1
TPA 2291 Intro to Technical Theatre II 3
TPA 2291L Intro to Technical Theatre Lab II 1
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
Director: M. Powers; Professors: P. Finelli, B. W. Lee, C. Steele; Associate Professors: F. Green, G.B. Stephens, J. Travers; Assistant Professor: M. Foley, A. Carroll, D. Arreola, A. Scott; Instructor: D. Frankel, J. Winfield, M. Bertch; Lecturer: J. Parks; Academic Advisor/Instructor: M. L. Morris; Professors Emeriti: P. Massie, N. Cole., D. Calandra, G. Warren; Associate Professor Emerita: S. Robinson
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, the University Career Center, First-Year and Transfer Student Orientation, the Transitional Advising Center, the University Experience Course, First Generation Access and Pre-Collegiate Programs, and the Academic Enrichment Center for Student Athletes.

The Office for Undergraduate Research (OUR) became a unit of Undergraduate Studies in Fall 2011 and was relocated into a new office suite within the USF library in October 2011. The 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 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.

The Career Center

The Career Center provides USF students with comprehensive career planning and job search services. A staff of experienced Career Center professionals is available to help students choose a career; gain career-related work experience and plan their job search. The Career Center also provides information on employment opportunities and creates venues where students can network and interview with local, state, national and international employers. The Career Center’s 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 Center web site 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 Center web site.
- Internships are advertised on the Career Center web site. 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.
Job Search Computer Lab, located in the Career Center 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 Center's 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 Center's 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 the Career Center and Interfolio, Inc., an online service available to students applying to graduate or professional schools, or applying for jobs requiring a credential file, dossier or portfolio.

Alumni Services

The Career Center's 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.

Transitional Advising Center (TRAC)

Location/Phone: SVC 2043; (813) 974-2645
Web Address: 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.

University Experience

Location/Phone: SVC 2043; (813) 974-2645
Web Address: http://www.ugs.usf.edu/ue/ue.htm

University Experience (SLS 1101) is an elective course 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
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 Latino 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
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 130 students from 10 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 2003; (813) 974-4051
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 (BSAS) 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 the A.S. degree with an overall “C” average in all college-level courses accepted for transfer credit to USF. Students are encouraged to complete at least 18 credit hours of the General Education Requirements as part of their A.S. degree, and it is highly recommended that students select 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.

Community College Block Credit
(Transferred from A.S.)
42

Community College General Education
(Transferred from A.S.)
18
USF General Education
18
USF Exit Courses
6
USF Area of Concentration*
18-21

325
USF Electives** 15-18
Total BSAS Credit Hours 120

*Note that all BSAS Areas of Concentration are at least 18 credit hours (some require 21 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)

Online Programs: The only BSAS Areas of Concentration available completely online are Criminal Justice, Industrial Operations and Information Technology. All courses required for Public Health are available online with the exception of a mandatory first day attendance on-campus requirement for one course – HSC4531 Medical Terminology.

Requirements for Areas of Concentration

BSAS - American Sign Language (ASG) Concentration consists of 19 credit hours:
- ASL 2140C Basic American Sign Language 4
- ASL 2150C Intermediate American Sign Language 4
- ASL 4161C Advanced American Sign Language 4
PLUS ONE OF THE FOLLOWING:
- ASL 4201C American Sign Language IV 4
- ASL 4301C Structure of Sign Language 4
PLUS ONE OF THE FOLLOWING:
- ASL 3514 American Deaf Culture 3
- SPA 4632 Nature and Needs of Deaf and Hard of Hearing 3

BSAS - Behavioral Healthcare Concentration (ABH) consists of 18 credit hours:
- 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
AND TWO OF THE FOLLOWING:
- MHS 4931 Selected Topics in Behavioral Healthcare 3
- MHS 4906 Directed Study/Readings 3

BSAS – Criminal Justice Concentration (ACJ) consists of 18 credit hours:
- CCJ 3610 Theories of Criminal Behavior 3
- CCJ 4934 Seminar in Criminology (XMW) 3
PLUS FOUR OF THE FOLLOWING:
- CJE 3110 Substantive Criminal Law 3
- CJE 4114 American Law Enforcement Systems 3
- CJC 4450 Criminal Justice Administration 3
- CJC 4010 American Correctional Systems 3
- CJE 4010 The Juvenile Justice System 3
- CCJ 3621 Patterns of Criminal Behavior 3
- CJL 4166 Alternatives to Incarceration 3
- CJC 4410 Criminal Rights & Procedures 3
- CJT 4100 Criminal Investigations 3
- CCJ 4933 Selected Topics in Criminology 3
- CCJ 4604 Abnormal Behavior & Criminality 3
- CCJ 3701 Research Methods in Criminal Justice I 3

BSAS – Environmental Policy Concentration (AEP) consists of 19-20 credits:
- EVR 2001 Introduction to Environmental Science 3
- EVR 2001L Introduction to Environmental Science Lab 3
- EVR 2861 Introduction to Environmental Policy 3
PLUS THREE OF THE FOLLOWING:
- PUP 4203 Environmental Politics and Policy 3
- PHI 3640 Environmental Ethics 3
ECP 3302 Environmental Economics (PR: ECO 2023 Microeconomics) 3
POS 3697 Environmental Law 3
PLUS ONE OF THE FOLLOWING:
ANT 4147 Environmental Archaeology 3
BSC 4057 Environmental Issues 3
ECP 3613 Economics of the Urban Environment 3
EDF 3228 Human Behavior & Environmental Selection 3
EVR 4930 Selected Topics in Environmental Policy 1-4
GEO 4340 Natural Hazards 4
HIS 4936 Pro-Seminar in History 4
IDS 3186 Scientific & Ethical Dimensions of Human Diseases 3
WST 3324 Women, Environment and Gender 3

BSAS – Gerontology Concentration (AGR) consists of 21 credit hours:
GEY 2000 Intro to Gerontology or GEY 3601 Physical Changes and Aging 3
GEY 3625 Sociocultural Aspects of Aging 3
GEY 4612 Psychology of Aging 3
PLUS THREE OF THE FOLLOWING:
GEY 4322 Gerontological Case Management 3
GEY 4327 Understanding Policies & Practices of Long Term Care 3
GEY 6340 Housing for the Elderly 3
GEY 4360 Gerontological Counseling 3
GEY 4608 Alzheimer’s Disease Management 3
GEY 4635 Business Management in an Aging Society 3
GEY 4641 Death and Dying 3
GEY 4647 Ethical and Legal Issues in Aging 3

BSAS – Information Studies (IFS) consists of 24 credit hours:
LIS 3261 Introduction to Information Science 3
LIS 2937 Selected Topics in Library/Information Science: Database Concepts 3
LIS 3353 IT Concepts for Information Professionals 3
LIS 3783 Information Architecture 3
LIS 3361 World Wide Web Page Design and Management 3
LIS 3352 Interaction Design 3
LIS 4365 Web Design Technologies 3
LIS/CXX 4**** IS/IT Elective 3

BSAS – Leadership Studies (ALS) consists of 18 credit hours:
Students must complete 6 credit hours from each tier (total 18 cr. hrs.).

Tier I (6 hrs.): Personal Systems
LDR 2010 Leadership Fundamentals or LDR 3311 Leading in the Workplace 3
LDR 4104 Theories of Leadership 3

Tier II (6hrs): Organizational Systems — select any two
LDR 4114 Survey of Leadership Readings 3
LDR 4164 Organizational Theories and Processes 3
LDR 4564 Images of Leadership in the Media 3
LDR 3214 Leadership in the Fraternal Movement 3
LDR 3930 Special Topics in Student Leadership: Organizational 3

Tier III (6hrs): Global Systems — select any two
LDR 3263 Community Leadership Practicum 3
LDR 4204 Ethics & Power in Leadership 3
LDR 4230 Global Leadership 3
LDR 3930 Special Topics in Student Leadership: Global 3

BSAS - Public Administration Concentration (APU) consists of 18 credit hours:
PAD 3003 Introduction to Public Administration 3
PAD 4204 Public Financial Administration 3
PAD 4415 Personnel and Supervision in Today’s Organizations 3
PAD 4712 Managing Information Resources in the Public Sector 3
POS 3182 Florida Politics and Government (3)
Plus any one of the following:
- PUP 4002 Public Policy 3
- PAD 5035 Issues in Public Administration and Public Policy 3
- PAD 5044 Environment of Public Administration 3
- POS 5159 Urban Policy Analysis 3
- PAD 5333 Concepts and Issues in Public Planning 3
- PAD 5605 Administrative Law and Regulation 3
- PAD 5700 Research Methods in Public Administration 3
- PAD 5807 Urban and Local Government Administration 3
- PAD 5836 Comparative Public Administration 3

**BSAS – Public Health Concentration (APL) consists of 18 credit hours:**
- PHC 4101 Introduction to Public Health 3
- HSC 4551 Survey of Human Disease 3
- HSC 4933 Special Topics in Public Health* 3
*Please see academic advisor for required special topics courses.

Electives (9 credit hours):
- HSC 3541 Human Structure and Function 3
- HSC 4504 Foundations of Public Health Immunology 3
- PHC 4542 Stress, Health and College Life 3
- HSC 4579 Foundations of Maternal & Child Health 3
- HSC 4933 Special Topics in Public Health** 3
- MHS 4002 Behavioral Health System Delivery 3
**AREAS FROM SELECTED SPECIAL TOPICS COURSES SHOULD BE SELECTED IN CONSULTATION WITH YOUR ACADEMIC ADVISOR.

Selected special topics courses may include the following subjects:
- Behavioral Health System Delivery
- Foundations of Global Health
- Introduction to Environmental Health
- Introduction to Food Safety
- Men’s Health and Gender in Society
- Secret History of Death and Disease
- Understanding U.S. Health Care
- Women’s Health: A Public Health Perspective

**BSAS – Urban Studies Concentration (AUR) consists of 18-21 credit hours:**
- URS 3002 Introduction to Urban Studies 3

Plus any of five of the following:
- ARC 4784 The City 3
- AMS 3700 Racism in American Society 3
- AMH 3423 Modern History 4
- IDS 4942 Community Internship 1-4
- ECP 3613 Economics of Urban Environment 3
- ISS 3930 Special Topics in the Social Sciences 1-4
- SYA 4930 Topics in Sociology 3
- GEO 3602 Topics in Urban Geography 4
- GEO 4604 Advanced Urban Geography 4
- PAD 3003 Introduction to Public Administration 3
- POS 3142 Introduction to Urban Politics and Government 3
- SOW 3203 Introduction to Social Work 3
- SPC 3710 Communication and Cultural Diversity 3
- SYD 3700 Racial and Ethnic Relations 3
- URP 4050 City Planning and Community Development 3
- URP 4052 Urban and Regional Planning 4

Contact the BSAS Program for additional BSAS Concentrations that may have developed since the publication of this catalog.
LEADERSHIP STUDIES MINOR

Location/Phone: SVC 2003; (813) 974-4051
Web Address: http://www.ugs.usf.edu/academic/lsminor.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 18 credit hours with a “C” grade or 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

ORGANIZATIONAL/GROUP DIMENSIONS OF LEADERSHIP (at least one course for 3 credits)

LDR 4164 Organizational Theories and Processes*
LDR 3263 Community Leadership Practicum*
COM 3120 Organizational Communication
LDR 3214 Leadership in the Fraternal Movement (permit only)
LDR 3930 Selected Topics in Student Leadership: Organizational

GLOBAL DIMENSIONS OF LEADERSHIP (at least one course for 3 credits)

LDR 4230 Global Leadership
LDR 3115 Contemporary Issues in Leadership
LDR 3216 Leadership and Social Change*
LDR 3930 Selected Topics in Student Leadership: Global

*These courses require LDR 2010 Fundamentals of Leadership with a minimum grade of C- as a pre-requisite.

For more information and advising, please contact the Center for Leadership and Civic Engagement at 813-974 7595. The Center is located in the Marshall Center (MSC 1300) and their website may be found at: http://leadandserve.usf.edu/leadcourses.php.

Joint Military Leadership Center at USF

Location/Phone: CWY 407; (813) 974-2025
Web Address: http://www.ugs.usf.edu/imslc/imslc.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.

**Minor in Aerospace Studies**

The Minor in Aerospace Studies Program will provide the student with an understanding of management and leadership concepts as they relate to military officers. Additionally, students will 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
Specific Course Requirements for the Minor:

a. Total credit hours required: 16

b. Required courses:
   - AFR 3220 Air Force Leadership and Management I 3
   - AFR 3231 Air Force Leadership and Management II 3
   - AFR 4201 National Security Affairs and Preparation for Activity Duty I 3
   - AFR 4211 National Security Affairs and Preparation for Active Duty II 3

c. Other specifications: Combination of 4 credit hours from any of the military elective courses below:
   - AFR 1101 Foundation of the United States Air Force Part I 1
   - AFR 1120 Foundation of the United States Air Force Part II 1
   - AFR 2130 The Evolution of USAF Aerospace Power Part 1 1
   - AFR 2140 The Evolution of USAF Aerospace Power Part 2 1

Optional Courses:
   - MSL 1001C Leadership in the Army Profession 2
   - MSL 1002C Leadership Models and Methods 2
   - MSL 2101C Individual Leadership Studies 2
   - MSL 2102C Leadership in Changing Environments 2
   - MSL 3201C Leading Teams 3
   - MSL 3202C Leading Small Units 3
   - MSL 4302C Preparing for Army Leadership 3

Aerospace Studies Faculty
Professor: Col Kyle E. Garland; Assistant Professors: Lt Col Mark Llewellyn and Major Michelle 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: arotcgr@mail.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 at all levels, including graduate students. Offerings are published each semester.

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.

Minor in Military Science
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: (Total of 14 Credit Hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MSL 3201C</td>
<td>Adaptive Team Leadership</td>
<td>3</td>
</tr>
<tr>
<td>MSL 3202C</td>
<td>Leadership in Changing Environments</td>
<td>3</td>
</tr>
<tr>
<td>MSL 4301C</td>
<td>Developing Adaptive Leaders</td>
<td>3</td>
</tr>
<tr>
<td>MSL 4302C</td>
<td>Leadership in a Complex World</td>
<td>3</td>
</tr>
<tr>
<td>MSL 2900*</td>
<td>Army Physical Readiness</td>
<td>1</td>
</tr>
</tbody>
</table>

*repeated for two semesters; may be repeated up to four semesters, however only two credits will count toward minor

Other specifications: combination of 4 credit hours from any of the military elective courses below:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MSL 1001C</td>
<td>Leadership and Personal Development</td>
<td>2</td>
</tr>
<tr>
<td>MSL 1002C</td>
<td>Introduction to Tactical Leadership</td>
<td>2</td>
</tr>
<tr>
<td>MSL 2101C</td>
<td>Innovative Team Leadership</td>
<td>2</td>
</tr>
<tr>
<td>MSL 2102C</td>
<td>Foundations of Tactical Leadership</td>
<td>2</td>
</tr>
<tr>
<td>MSL 2901</td>
<td>Basic Leader Training</td>
<td>4</td>
</tr>
<tr>
<td>MSL 4930</td>
<td>Advanced Directed Study and Research</td>
<td>1-3</td>
</tr>
<tr>
<td>AFR 1101</td>
<td>The Foundation of the United States Air Force Part 1</td>
<td>1</td>
</tr>
<tr>
<td>AFR 1120</td>
<td>The Foundations of the United States Air Force Part 2</td>
<td>1</td>
</tr>
<tr>
<td>AFR 2130</td>
<td>Evolution of USAF Air and Space Power, Part 1</td>
<td>1</td>
</tr>
<tr>
<td>AFR 2140</td>
<td>Evolution of USAF Air and Space Power, Part 2</td>
<td>1</td>
</tr>
<tr>
<td>AFR 3220</td>
<td>Air Force Leadership and Management I</td>
<td>3</td>
</tr>
<tr>
<td>AFR 3231</td>
<td>Air Force Leadership and Management II</td>
<td>3</td>
</tr>
<tr>
<td>AFR 4201</td>
<td>National Security Affairs &amp; Preparation for Active Duty I</td>
<td>3</td>
</tr>
<tr>
<td>AFR 4211</td>
<td>National Security Affairs &amp; Preparation for Active Duty II</td>
<td>3</td>
</tr>
</tbody>
</table>

Military Science Faculty
Professor of Military Science: Padraig Clark; Assistant Professors: Bryan Dunker, Scott Dunkle, William Patterson, Jonathan Stapel, Miguel Ramirez, Scott Macksam, Andy Miller, John Lopez, Steven Beck, John Biggs.
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 during the four-year period, and during the junior and senior years, pays the midshipman up to $400.00 per month subsistence allowance. Each student is selected for enrollment in the program on the basis of past academic performance, potential, personal interviews, and a physical examination. 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 three years.

Two-Year NROTC College Program (Non-Scholarship)

The USF NROTC offers on a limited basis a two-year non-scholarship program which is designed 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 complete college level science and math courses. 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. During the student’s attendance at the Naval Science Institute, the Navy provides room and board, books, uniforms, and transportation from home and return, as well as pays the student approximately $365.00 per month. Upon successful completion of the course, the Navy pays for uniforms, naval science textbooks, and up to $400.00 per month subsistence allowance.

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 three years.

**Two-Year NROTC Scholarship Program**

The two-year scholarship program is administered in the same manner as the two-year non-scholarship program, except that a student who has excelled in a math, physical science, or engineering major and who has demonstrated above average performance in integral calculus may be selected for a two-year full tuition scholarship, to be awarded upon successful completion of the six-week period of training at the Naval Science Institute. In addition to the full-tuition scholarship, the student will receive up to $400.00 subsistence per month, books, and lab fees.

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 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.

**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, “Bulldog,” 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>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>NSC 1110</td>
<td>Introduction to Naval Science (See Note 1)</td>
<td>3</td>
</tr>
<tr>
<td>NSC 1101L</td>
<td>Naval Science Laboratory</td>
<td>0</td>
</tr>
<tr>
<td>NSC 1140</td>
<td>Sea Power and Maritime Affairs (See Note 1)</td>
<td>3</td>
</tr>
</tbody>
</table>

**Sophomore Year:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAC 2311 and MAC 2312 Calculus I and II</td>
<td>8</td>
<td></td>
</tr>
<tr>
<td>or MAC 2281 and MAC 2282 Engineering Calculus I and II</td>
<td>8</td>
<td></td>
</tr>
<tr>
<td>NSC 1101L</td>
<td>Naval Science Laboratory</td>
<td>0</td>
</tr>
<tr>
<td>NSC 2212C</td>
<td>Navigation/Naval Operations I: Navigation (See Note 2)</td>
<td>3</td>
</tr>
<tr>
<td>NSC 2220</td>
<td>Evolution of Warfare (See Note 3)</td>
<td>3</td>
</tr>
<tr>
<td>NSC 2231</td>
<td>Principles of Naval Management I (See Note 1)</td>
<td>3</td>
</tr>
</tbody>
</table>

**Junior Year:**
NSC 1101L Naval Science Laboratory 0
NSC 2121 Naval Ships System I (Note 2) 3
NSC 3123 Naval Ships Systems II (Note 2) 3
PHY 2048 and PHY 2049 Physics I and II (Note 4) 10
Senior Year:
NSC 1101L Naval Science Laboratory 0
NSC 3214C Navigation/Naval Operations II: Seamanship & Ship Operations 3
(See Note 2)
NSC 4224 Amphibious Warfare (Note 3) 3
NSC 4232 Principles of Naval Management II 3
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.

Minor in Naval Science and Leadership
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: (Total of 12 Credit Hours)
NSC 1110 Introduction to Naval Science 3
NSC 1140 Sea Power and Maritime Affairs 3
NSC 2231 Principles of Naval Management I 3
NSC 4232 Principles of Naval Management II 3

Other specifications: combination of 6 credit hours from any of the naval science courses below:
NSC 2121 Naval Ship Systems I 3
NSC 2212C Navigation/Naval Operations I: Navigation 3
NSC 2221 Evolution of Warfare 3
NSC 3123 Naval Ship Systems II 3
NSC 3214C Navigation/Naval Operations II: Seamanship and Ship Operations 3
NSC 4224 Amphibious Warfare 3

Naval Science Faculty
Professor: Kevin Kenney; Assistant Professors: Doug Harvey, Ian Hayes, Jennifer Simpson, and Steven Durst.
Office for Undergraduate Research

Location/Phone: LIB 210; (813) 974-6842
Web Address: http://www.ur.usf.edu/
Contact Email: ur@ur.usf.edu

The Office for Undergraduate Research (OUR) promotes mentored research across all disciplines by partnering with faculty, staff and administrative units across campus to establish research experiences designed to enhance a student researcher's academic progression and foster deeper immersion in the field. One of the primary aims of the OUR is to provide extensive training and support to undergraduate researchers through professional development and skill acquisition. 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:

- UR self-assessment tools
- a comprehensive workshop series
- research consultation with OUR staff
- for-credit research courses
- research funding support

In addition, the Office for Undergraduate Research hosts the annual Undergraduate Research and Art Colloquium, which provides an opportunity for undergraduate students to present their current research and interact with faculty and peers. Students who participate in undergraduate research and utilize the services of the OUR will develop critical thinking skills, gain invaluable experience, and inspire other students to engage in undergraduate research and fulfill their potential.
General Course Information

UNIVERSITY OF SOUTH FLORIDA 2012-2013 UNDERGRADUATE CATALOG

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
GS Graduate Standing
GR Graduate Standing
ML Master's Level
S/U S/U Grade System
Lec Lecture
Lab Laboratory
Dem Demonstration
Pro Problem
Dis Discussion

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

or

CLEX FKL Capstone Learning Experience - 6 credits

Liberal Arts Requirements - for students graduating under a USF undergraduate catalog prior to 2009-2010:

EC Course fulfills part of the Liberal Arts General Education Requirement for English Composition
General Course Information

UNIVERSITY OF SOUTH FLORIDA 2012-2013 UNDERGRADUATE CATALOG

| FA  | Course fulfills part of the Liberal Arts General Education Requirement for Fine Arts |
| HP  | Course fulfills part of the Liberal Arts General Education Requirement for Historical Perspectives |
| NS  | Course fulfills part of the Liberal Arts General Education Requirement for Natural Sciences |
| AF  | Course fulfills part of the Liberal Arts General Education Requirement for African, Latin American, Middle Eastern, or Asian Perspectives |
| QM  | Course fulfills part of the Liberal Arts General Education Requirement for Qualitative Methods |
| SS  | Course fulfills part of the Liberal Arts General Education Requirement for Social Sciences |
| LW  | Course fulfills part of the Liberal Arts Exit Requirement for Literature & Writing |
| 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.

Alphabetical Listing of Departments and Programs
Course descriptions are listed by college under the following department and program headings:

<table>
<thead>
<tr>
<th>Department/Program</th>
<th>College</th>
</tr>
</thead>
<tbody>
<tr>
<td>Accounting</td>
<td>Business</td>
</tr>
<tr>
<td>Adult, Career &amp; Higher Education</td>
<td>Education</td>
</tr>
<tr>
<td>Africana Studies</td>
<td>Arts &amp; Sciences</td>
</tr>
<tr>
<td>Aging Studies</td>
<td>Behavioral &amp; Community Sciences</td>
</tr>
<tr>
<td>Aerospace Studies (Air Force ROTC)</td>
<td>Undergraduate Studies</td>
</tr>
<tr>
<td>Anthropology</td>
<td>Arts &amp; Sciences</td>
</tr>
<tr>
<td>Architecture &amp; Community Design</td>
<td>The Arts</td>
</tr>
<tr>
<td>Army ROTC</td>
<td>Undergraduate Studies</td>
</tr>
<tr>
<td>Art &amp; Art History</td>
<td>The Arts</td>
</tr>
<tr>
<td>Astronomy</td>
<td>Arts &amp; Sciences</td>
</tr>
<tr>
<td>Athletic Training</td>
<td>Medicine</td>
</tr>
<tr>
<td>Biology:</td>
<td>Arts &amp; Sciences</td>
</tr>
<tr>
<td>Integrative Cell Biology, Microbiology &amp; Molecular Biology</td>
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</tr>
<tr>
<td>Chemistry</td>
<td>Arts &amp; Sciences</td>
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<tr>
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339
## General Course Information

**UNIVERSITY OF SOUTH FLORIDA 2012-2013 UNDERGRADUATE CATALOG**

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### Listing of Departments and Programs Alphabetically by College, Department or Program

#### College of Arts & Sciences
- Africana Studies
- Anthropology
- Astronomy
- Biology
- Chemistry
- Classics
- Communication
- Community Experiential Learning
- Economics
- English
- Environmental Science & Policy
- Geography
- Geology
- Government & International Affairs
- History
- Humanities & Cultural Studies
- Information Studies
- Information Technology

#### Interdisciplinary Arts & Sciences
- Interdisciplinary Social Sciences
- Interdisciplinary Studies
- Mass Communications
- Marine Science
- Mathematics & Statistics

#### Philosophy
- Physics
- Psychology
- Religious Studies
- Sociology
- Women’s & Gender Studies
- World Languages

#### Common Course Prefixes
- AFA, AFH, AFS, AMH, AML, AMS, ISS, LAS, PHM
- ANG, ANT
- AST
- BOT, BSC, ENY, MCB, PCB, ZOO
- BCH, CHM, CHS, MLS
- CLA, CLT, GRE, LAT, LNW
- COM, ORI, SPC
- IDS
- ECO, ECP, ECS
- AML, CRW, ENC, ENG, ENL, LIN, LIT, REA
- EVR
- GEA, GEO, GIS, MET, URP
- ESC, GLY
- AFA, ASN, CPO, EUS, INR, LAS, PAD, POS, POT, PUP, URP
- AMH, ASH, EUH, HIS, LAH, WOH
- AMS, CLA, FIL, HUM
- LIS
- CDA, CEN, CGS, CIS, CNT, COP, CTS, EEL, EIN, ETG, ETI, MAN
- IDS
- ISS, STA, URS
- ISC
- ADV, FIL, JOU, MMC, PGY, PUR, RTV, VIC
- OCE
- COP, MAA, MAC, MAD, MAE, MAP, MAS, MAT, MGF, MHF, MTG, STA
- PHH, PHI, PHM, PHP
- PHY, PHZ, PSC
- CBH, CLP, DEP, EAB, EXP, INP, PPE, PSB, PSY, SOP
- GRE, HEB, REL
- SYA, SYD, SYG, SYO, SYP
- POS, PUP, SOP, WST
- ARA, CHI, CHT, EAP, FOL, FRE, FRT, FRW, GER, GET, GEW
- GRK, HBR, ITA, ITT, ITW, JPN, LIN, POR, RUS, RUT, SPN, SPT, SPW, TSL, YOR

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340
## General Course Information

### College of Behavioral & Community Sciences
- Aging Studies: GEY, DEP
- Child & Family Studies: MHS
- Communication Sciences & Disorders: ASL, INT, SPA
- Community Mental Health: MHS
- Criminology: CCJ, CJC, CJE, CJL
- Mental Health Law & Policy: IDS, MHS
- Rehabilitation & Mental Health Counseling: MHS, RCS
- Social Work: SOW

### College of Business
- 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
- 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
- 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
- Honors College: IDH

### College of Medicine
- Athletic Training: APK, ATR
- Medical Sciences: BMS

### College of Nursing
- Nursing: BSC, HUN, MCB, NGR, NSP, NUR
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# General Course Information

**UNIVERSITY OF SOUTH FLORIDA 2012-2013 UNDERGRADUATE CATALOG**

**Listing Departments/Program Alphabetically by Prefix**

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### General Course Information

#### UNIVERSITY OF SOUTH FLORIDA 2012-2013 UNDERGRADUATE CATALOG

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### General Course Information

**UNIVERSITY OF SOUTH FLORIDA 2012-2013 UNDERGRADUATE CATALOG**

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### 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

UNIVERSITY OF SOUTH FLORIDA 2012-2013 UNDERGRADUATE CATALOG

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 sub-category of knowledge. The prefix is not intended to identify the department in which a course is offered. Rather, the content of a course determines the prefix designation.

Authority for Acceptance of Equivalent Courses

Section 1007.24(7), Florida Statutes, states:

Any student who transfers among postsecondary institutions that are fully accredited by a regional or national accrediting agency recognized by the United States Department of Education and that participate in the statewide course numbering system shall be awarded credit by the receiving institution for courses satisfactorily completed by the student at the previous institutions. Credit shall be awarded if the courses are judged by the appropriate statewide course numbering system faculty committees representing school districts, public postsecondary educational institutions, and participating nonpublic postsecondary educational institutions to be academically equivalent to courses offered at the receiving institution, including equivalency of faculty credentials, regardless
of the public or nonpublic control of the previous institution. The Department of Education shall ensure that credits to be accepted by a receiving institution are generated in courses for which the faculty possess credentials that are comparable to those required by the accrediting association of the receiving institution. The award of credit may be limited to courses that are entered in the statewide course numbering system. Credits awarded pursuant to this subsection shall satisfy institutional requirements on the same basis as credits awarded to native students.

Exceptions to the General Rule for Equivalency
The following courses are exceptions to the general rule for course equivalencies and may not transfer. Transferability is at the discretion of the receiving institution:
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.
ACG 2021 Principles of Financial Accounting (3) BU 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) BU 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) BU 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) BU ACC
PR: ACG 2071 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 3401 Accounting Information Systems (3) BU 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) BU ACC
PR: ACG 2021 and ACG 2071 with a grade of C or better, not C-. Application of 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 3342 Cost Accounting and Control II (3) BU ACC
PR: ACG 3103 with a grade of C or better, not C-. Further development of 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) BU 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) BU 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) BU ACC
PR: Consent of Director. S/U only. Specialized independent study determined by the students' needs and interests.

ACG 4911 Independent Research (1-4) BU 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) BU ACC
The course content will depend on student demand and instructor's interest.

ACG 5505 Governmental/Not-For-Profit Accounting (3) BU ACC
PR: ACG 3113, CR: ACG 4632. Application of financial and managerial accounting, and auditing, principles and theory to both governmental and not-for-profit entities.

ACG 5675 Internal and Operational Auditing (3) BU ACC
PR: ACG 3113 and ACG 3401. CR: ACG 4632. The objective of Internal and Operational Auditing is to provide students with an opportunity to learn about the theory and practice of internal and operational auditing and to apply relevant audit principles and techniques to selected audit problems.

ADE 4384 Working With the Adult Learner (3) ED EDV
An investigation of the needs of the adult learner. Identification of principles of adult learning; physiological, psychological, and social characteristics of adult learners, and corresponding implications are explored.

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 of survey and experimental research.

ADV 4204 Advanced Advertising Creativity (3) AS COM
COURSE DESCRIPTIONS

UNIVERSITY OF SOUTH FLORIDA 2012-2013 UNDERGRADUATE CATALOG

PR: ADV 3101, ADV 3300, ADV 3500, ADV 4600, ECO 1000, MAR 3023. Focused on producing advertising messages, the curriculum integrates: ethics, branding, consumer insight, message strategy, concep ting, 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 Advanced 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, ADV 4600, ECO 1000, and 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 AF 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 AF (3) AS INT
An examination of the historical and current political, economic, and cultural relations between the United States and Africa.

AFA 4313 Black English MW (3) AS AFA
PR: Junior or Senior standing. This course focuses on linguistic patterns among African Americans in the U.S., South and Central America, and the Caribbean. It examines language in relation to issues of domination, social stratification, economics and political empowerment.

AFA 4331 Social Institutions and the African American Community (3) AS AFA
A study of social institutions as they relate to the African American community, with emphasis on social systems operating within and on the African American community.

AFA 4333 The African Diaspora: Blacks in the Construction of the Americas MW (3) AS AFA
PR: Junior or Senior standing. This course will examine the historical and geographical distribution of Africans in the diaspora and the political and economic roles they have played in the development of the Western world, with a focus on America. The course takes an interdisciplinary approach. The course is not restricted to majors and is not repeatable for credit.

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 in North, South, and Central America, and the Caribbean. It takes an interdisciplinary approach in exploring the social, political, and economic underpinnings of slavery.

AFA 4502 Middle Passage MW AF HP (3) AS AFA
The Middle Passage focuses on the trafficking of African peoples from Africa to destinations in the Americas and Europe. Emphasis is placed on the capture, detention, and transport of Africans, and their response to the experience.

AFA 4900 Directed Readings (2-3) AS AFA
PR: CI. Independent readings in a particular area of African and African American Studies, selected by student and instructor.

AFA 4931 Selected Topics in Africana Studies (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.

AFA 5935 Issues in Africana Studies (1-4) AS AFA
Variable topics course focusing on the history, culture, and lived experiences of Africans, African American, and/or other peoples of African descent worldwide. Rpt. Up to 12 hours as topics vary.

AFH 3100 African History to 1850 HP AF CAHU HHCP (3) AS AFA
AFR 3200 African History since 1850 HP AF CAHU HHCP (3) AS AFA
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.

AFR 1101 The Foundation of the United States Air Force Pt 1 (1) US AFR
Intro Air Force Reserve Officer Training Corps (AFROTC) & US Air Force (USAF) includes lessons in officership/professionalism and an intro to communication skills. AFR 2001 Lead Lab augments course providing followership and leadership experiences.

AFR 1120 The Foundations of the United States Air Force Pt 2 (1) US AFR
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.

AFR 1903 Directed Independent Studies (1-4) US AFR
PR: DPR Directed Independent Study.

AFR 2001 Air Force ROTC Leadership Laboratory (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.

AFR 2130 Evolution of USAF Air and Space Power, Part I (1) US AFR
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.

AFR 2140 Evolution of USAF Air and Space Power, Part II (1) US AFR

AFR 3220 Air Force Management and Leadership I (3) US AFR
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 (officer). 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.

AFR 3231 Air Force Management and Leadership II (3) US AFR
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.

AFR 4201 National Security Affairs & Preparation for Active Duty I (3) US AFR

AFR 4211 National Security Affairs & Preparation for Active Duty II (3) US AFR
CR: AFR 2000, AFR 2001. Cont study national sec proc, reg studies, adv leader ethics,& 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.

AFS 2250 Culture and Society in Africa 6A AF (3) AS AFA
Topics include: African religion, value systems, art and the aesthetics, family and life-cycle, impact of Islam and Christianity and conflict of cultures.

AFS 3153 African Literature Survey 6A LW (3) AS AFA
PR: Junior or Senior standing. Explore the socio-historical, philosophical and political dynamics of African cultures through the study of African oral literature and the reading of African literary texts of various genres.

AFS 3251 Environmental - Cultural Study in Africa SS FA AF (3) AS AFA
PR: AFS 2250 or Cl. Study tour. A study of traditional African society and culture, the relationship between life and the environment, and the impact of modernization on the culture and the environment.

AFS 4910 Individual Research (1-3) AS AFA
PR: CI, Department approval. 2000 level introductory course. Course consists of advanced undergraduate research on Africana Studies topic selected by student and professor. Topics vary. The course allows students to develop research skills and independent work discipline.

AMH 2010 American History I HP CAHU HHCP (3) AS HTY
This class is an introductory survey of American history from Columbus and "First Contact" to Reconstruction.

AMH 2020 American History II HP CAHU HHCP (3) AS HTY
A history of the United States with attention given to relevant developments in the Western Hemisphere from 1877 to the present.

AMH 3110 American Colonial History to 1750 (4) AS HTY
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.

AMH 3130 The American Revolutionary Era (4) AS HTY
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 loyalty, violence, and slavery in American society from 1750-1789.

AMH 3140 The Age of Jefferson (4) AS HTY
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.

AMH 3160 The Age of Jackson (4) AS HTY
The United States from 1828-1850, with emphasis on social and political conflict. Consideration of evangelicalism, reform, labor movements, urbanization, and political activity in the antebellum era.

AMH 3170 The Civil War and Reconstruction (4) AS HTY
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).

AMH 3201 The United States, 1877-1914 (4) AS HTY
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.

AMH 3231 The United States, 1914-1945 (4) AS HTY
The United States from World War I to the end of World War II. Covering political, social and international developments, the course examines the lives of Americans, including minorities and women, during war, prosperity, and the Great Depression.

AMH 3270 The United States since 1945 (4) AS HTY
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.

AMH 3402 The Old South, 1607-1865 (4) AS HTY
The history of the U.S. South from European exploration to the Civil War. Topics covered include: slavery, black culture and resistance, agrarianism, women and gender, honor culture, the pro-slavery argument, sectionalism, and the Civil War.

AMH 3403 The South since 1865 (4) AS HTY
Southern history since the surrender at Appomattox. Topics covered include Reconstruction, the Populist revolt, race relations, demagoguery and disfranchisement, Southern women, and the Civil Rights Movement.

AMH 3421 Early Florida (4) AS HTY
A history of colonial Florida under the Spanish and English. Florida as an area of discovery, colonization, and imperial conflict; the emergence of Florida within the regional setting.

AMH 3423 Modern Florida (4) AS HTY
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.

AMH 3500 American Labor History (4) AS HTY
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.

AMH 3512 U.S. Foreign Relations (4) AS HTY
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.

AMH 3530 Immigration History (4) AS HTY
A study of the composition and character of the “American” 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.

AMH 3545 War and American Empire (4) AS HTY
The U.S. evolved in 290 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 (4) 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 (4) 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 3580 African American Environmental History (4) AS HTY
History of the American Environment and the ways in which different cultural groups have perceived, used, managed and conserved it, from Colonial times to present.

AMH 4601 Early American History and Archaeology (6) 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.

AMH 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.

AMH 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.

AMH 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 eighteenth 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 Valdez, Tomas 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 4303 Zora Neale Hurston: Major Works 6A MW LW (3) AS AFA
PR: Junior or Senior standing. The course focuses on the life, works, and times of Zora Neale Hurston as a major Harlem Renaissance figure and a renown Florida writer.

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 3220 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 (4) 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.
COURSE DESCRIPTIONS

UNIVERSITY OF SOUTH FLORIDA 2012-2013 UNDERGRADUATE CATALOG

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 3605 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 3685 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.

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 AF CASB (4) 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 AF 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
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.
COURSE DESCRIPTIONS

UNIVERSITY OF SOUTH FLORIDA 2012-2013 UNDERGRADUATE CATALOG

ANT 2511L Biological Anthropology Laboratory (1) AS
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 AF (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 biocultural 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 life on this planet.

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
PR: Senior standing with major in anthropology or DPR. 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, Moctica, 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.

ANT 4178 The History & Archaeology of the African Diaspora (3) AP ANT
Rich contributions made by African peoples to life ways outside their 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, cataloging, 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 Institute of Archaeology and Field Methods in Archaeology.

**ANT 4181 Museum Methods (4) 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 MW (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, 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 environmental problems.

**ANT 4432 The Individual and Culture 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 4495 Methods in Cultural Research (3) AS ANT**
PR: DPR. Restricted to juniors and seniors. The stages in the development and execution of ethnological research are discussed and practiced. Literature search, hypothesis formation, selection of data collection techniques, elicitation of information, data analysis, and report presentation are stressed. Research design models from the case literature are studied and supervised research in the local community is designed and carried out.
### UNIVERSITY OF SOUTH FLORIDA 2012-2013 UNDERGRADUATE CATALOG

### COURSE DESCRIPTIONS

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Prerequisites</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANT 4516</td>
<td>Human Variation (3) AS ANT</td>
<td>PR: ANT 2511 or DPR. An overview of evolution and biological variations of human races. Anatomical, morphological, and physiological patterns are surveyed geographically. Cultural influences on racial biology are explored.</td>
<td>3</td>
</tr>
<tr>
<td>ANT 4520C</td>
<td>Forensic Anthropology (4) AS ANT</td>
<td>PR: ANT 2511 or DPR. This course is designed to familiarize students with forensic anthropology through lectures and lab work. Students will learn human skeletal biology for personal identification and cause of death. This course is restricted to majors and is not repeatable.</td>
<td>4</td>
</tr>
<tr>
<td>ANT 4586</td>
<td>Prehistoric Human Evolution NS (3) AS ANT</td>
<td>PR: ANT 2511 or DPR. A survey of the fossil record from the early primates through the ascent of Homo sapiens sapiens, focusing on the human lineage. Bioskopan patterns and cultures of the past are also covered.</td>
<td>3</td>
</tr>
<tr>
<td>ANT 4620</td>
<td>Language and Culture 6A (3) AS ANT</td>
<td>PR: ANT 3610 or DPR. Examines the relationship 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.</td>
<td>3</td>
</tr>
<tr>
<td>ANT 4701</td>
<td>Applied Anthropology (3) AS ANT</td>
<td>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.</td>
<td>3</td>
</tr>
<tr>
<td>ANT 4750</td>
<td>Language and Social Interaction 6A (3) AS ANT</td>
<td>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.</td>
<td>3</td>
</tr>
<tr>
<td>ANT 4824</td>
<td>Archaeological Field Methods (4-12) AS ANT</td>
<td>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, excavation, data and materials recovery, recording, and processing.</td>
<td>4</td>
</tr>
<tr>
<td>ANT 4901</td>
<td>Directed Reading (1-4) AS ANT</td>
<td>PR: DPR. S/U only. Individual guidance in concentrated reading on a selected topic in anthropology. Contract required prior to registration.</td>
<td>1-4</td>
</tr>
<tr>
<td>ANT 4905</td>
<td>Individual Research (2-4) AS ANT</td>
<td>PR: DPR. S/U only. Individual guidance in a selected research project. Contract required prior to registration.</td>
<td>2-4</td>
</tr>
<tr>
<td>ANT 4930</td>
<td>Special Topics in Anthropology (2-4) AS ANT</td>
<td>PR: Variable depending on topic or DPR. Topics to be chosen by students and instructor permitting newly developing subdisciplinary special interests to be explored.</td>
<td>2-4</td>
</tr>
<tr>
<td>ANT 4932</td>
<td>Honors Seminar (4) AS ANT</td>
<td>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.</td>
<td>4</td>
</tr>
<tr>
<td>ANT 4935</td>
<td>Rethinking Anthropology 6A (3) AS ANT</td>
<td>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 the opportunities to 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.</td>
<td>3</td>
</tr>
<tr>
<td>ANT 4940</td>
<td>Directed Internship Including Practicum (2-4) AS ANT</td>
<td>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.</td>
<td>2-4</td>
</tr>
<tr>
<td>ANT 4970</td>
<td>Honors Thesis (3) AS ANT</td>
<td>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.</td>
<td>3</td>
</tr>
<tr>
<td>APK 3110</td>
<td>Exercise Physiology I (3) ME ATH</td>
<td>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.</td>
<td>3</td>
</tr>
<tr>
<td>APK 3120</td>
<td>Exercise Physiology (3) ED EDP</td>
<td>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.</td>
<td>3</td>
</tr>
<tr>
<td>APK 4136</td>
<td>Exercise Prescription for Strength &amp; Conditioning (3) ED EDP</td>
<td>PR: APK 3110. Athletic Training majors only. Techniques in conducting health-fitness test and exercise prescription for adults. Includes cardiovascular strength, flexibility, body composition, health risk testing, exercise prescribing, and monitoring.</td>
<td>3</td>
</tr>
</tbody>
</table>

**Justification**

- **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 1121L. 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**
COURSE DESCRIPTIONS

UNIVERSITY OF SOUTH FLORIDA 2012-2013 UNDERGRADUATE CATALOG

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</tr>
</thead>
<tbody>
<tr>
<td>ARA 1121</td>
<td>Introduction to Fundamental Critical Thinking</td>
<td>3</td>
<td>An introduction to fundamental &quot;critical thinking&quot; and graphic communication skills in architecture.</td>
</tr>
<tr>
<td>ARA 2221</td>
<td>Modern Arabic IV (4) AS WLE</td>
<td>5</td>
<td>PR: ARA2220 or the equivalent. Continuation of ARA2220. Practice of writing, speaking and listening skills for language students who intend to attain basic proficiency.</td>
</tr>
<tr>
<td>ARA 4905</td>
<td>Directed Study (1-5) AS WLE</td>
<td>1-5</td>
<td>Departmental approval required. S/U only. Permits study options in Arabic not available in regularly scheduled curriculum at departmental discretion.</td>
</tr>
<tr>
<td>ARA 4930</td>
<td>Selected Topics (1-5) AS WLE</td>
<td>1-5</td>
<td>Departmental approval required. Course permits classes in Arabic not available in the regularly scheduled curriculum at departmental discretion.</td>
</tr>
<tr>
<td>ARC 2131</td>
<td>Introduction to Architectural Design and Graphics FA (4) TA ARC</td>
<td>4</td>
<td>An introduction to fundamental &quot;critical thinking&quot; and graphic communication skills in architecture.</td>
</tr>
<tr>
<td>ARC 2211</td>
<td>Introduction to Architecture HP FA CAHU, HHCP (3) TA ARC</td>
<td>3</td>
<td>An introduction to the analysis and interpretation of the architecture and urban design of various cultures.</td>
</tr>
<tr>
<td>ARC 2701</td>
<td>Architectural History I HP FA (3) TA ARC</td>
<td>3</td>
<td>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.</td>
</tr>
<tr>
<td>ARC 2702</td>
<td>Architectural History II HP FA (3) TA ARC</td>
<td>3</td>
<td>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.</td>
</tr>
<tr>
<td>ARC 2932</td>
<td>Selected Topics (1-4) TA ARC</td>
<td>1-4</td>
<td>Selected topics will include architectural diagramming, freehand drawing, model making, photography, and computer graphics. Courses are intended for non-majors and are repeatable.</td>
</tr>
<tr>
<td>ARC 4764</td>
<td>The City 6A MW (3) TA ARC</td>
<td>3</td>
<td>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.</td>
</tr>
<tr>
<td>ARC 4931</td>
<td>Selected Topics in Architecture and Community Design (2-4) TA ARC</td>
<td>2-4</td>
<td>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.</td>
</tr>
<tr>
<td>ARC 5175</td>
<td>Computer Technology (3) TA ARC</td>
<td>3</td>
<td>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.</td>
</tr>
<tr>
<td>ARC 5216</td>
<td>The Building Arts (3) TA ARC</td>
<td>3</td>
<td>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.</td>
</tr>
<tr>
<td>ARC 5256</td>
<td>Design Theory (3) TA ARC</td>
<td>3</td>
<td>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.</td>
</tr>
</tbody>
</table>

ARC 5361 Core Design I (9) TA ARC

PR: CC. First 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 5362 Core Design II (9) TA ARC

PR: ARC 5361, CC. Second of a 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) TA 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) TA 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) TA 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) TA 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) TA 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) TA 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) TA 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) TA ARC
PR: ARC 5587. CC. Introduction to the concepts and theories of structural analysis and design of reinforced concrete systems and design systems, including practical application in building construction. Prestressing, post-tensioning, hybrid assemblies. Fundamentals of wind and seismic design. Formwork, placement, and assembly techniques.

ARC 5689 Environmental Technology (3) TA 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) TA 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) TA 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) TA 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) TA ARC
PR: CC. Summer study abroad. Location and description varies from year to year.

ARC 5794 Florida Architectural History (3) TA 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) TA ARC
PR: CC. Summer study abroad. Location and description varies from year to year.

ARC 5931 Special Studies in Architecture (1-5) TA ARC
PR: CC. Variable titles offered on topics of special interest.

ARH 2050 History of Visual Arts I HP FA CAFA CAHU HHCP (3) TA 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) TA 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 (4) TA 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 3075C Contemporary Issues in Art HP FA MW (4) TA ART
PR: DPR. Focuses upon the productions, themes and processes of artists working in the present time. This course will investigate the relationship of materials and media used by contemporary artists to the subject and content of artists' productions/products as well as conceptual processes.

ARH 4115 Ancient Egyptian and Near Eastern Art (4) TA 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 the conquests of Alexander the Great.

ARH 4130 Greek Art (4) TA 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 (4) TA 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 (4) TA ART
COURSE DESCRIPTIONS

A comprehensive study of Aegean, Mycenaean, Etruscan, Greek and Roman painting, sculpture and architecture.

**ARH 4200 Medieval Art (4) TA ART**
PR: DPR. A comprehensive study of early Christian, Byzantine, and Medieval painting, sculpture, architecture and manuscript illumination.

**ARH 4301 Renaissance Art (4) TA ART**
PR: DPR. A comprehensive study of Renaissance and Mannerist painting, sculpture and architecture in Italy and Northern Europe.

**ARH 4318 Venetian Art (4) TA ART**
PR: DP. 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 (4) TA 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 (4) TA 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 (4) TA 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 (4) TA 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 4520 African Art (4) TA 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 (4) TA ART**
PR: Departmental Approval. An introduction to concepts of the arts of China, Japan and other Far Eastern countries.

**ARH 4557 Chinese Art (4) TA 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 (4) TA 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) TA 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 (4) TA ART**
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 (4) TA 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 (4) TA 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) TA 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) TA ART**
Lecture/discussion course designed to offer areas of expertise of visiting scholars or specific interests of resident faculty.

**ARH 5451 Cultural and Intellectual History of Modern Art (4) TA 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) TA 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) TA 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 (4) TA ART**
Introduce students 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 (4) TA 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) TA ART**
PR: Majors Only. Projects exploring the methods, media, and concepts of drawing.

**ART 2400C Beginning Printmaking (3) TA ART**
PR: Majors Only. This course is designed as an introduction to the medium of printmaking. It concentrates on the technical production of various
### COURSE DESCRIPTIONS

**UNIVERSITY OF SOUTH FLORIDA 2012-2013 UNDERGRADUATE CATALOG**

<table>
<thead>
<tr>
<th>Course Code</th>
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<th>Credits</th>
<th>Repeatable up to</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 2500C</td>
<td>Beginning Painting (3) TA ART</td>
<td>PR: Majors Only. Projects in painting with emphasis on the exploration of methods and media and the development of individual concepts.</td>
<td>3</td>
<td>15</td>
<td></td>
</tr>
<tr>
<td>ART 2701C</td>
<td>Beginning Sculpture (3) TA ART</td>
<td>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.</td>
<td>3</td>
<td>15</td>
<td></td>
</tr>
<tr>
<td>ART 2750C</td>
<td>Beginning Ceramics (3) TA ART</td>
<td>PR: Majors Only. An introduction to the use of ceramic materials as a means of self expression and critical exploration.</td>
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<tr>
<td>ART 2930</td>
<td>Selected Topics In Art (2-4) TA ART</td>
<td>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.</td>
<td>2-4</td>
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<tr>
<td>ART 3310C</td>
<td>Intermediate Drawing (3) TA ART</td>
<td>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.</td>
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<tr>
<td>ART 3380C</td>
<td>Selected Topics in Drawing (3) TA ART</td>
<td>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.</td>
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<tr>
<td>ART 3400C</td>
<td>Intermediate Printmaking (3) TA ART</td>
<td>PR: ART 2203C, ARH 2050, ARH 2051, ART 2301C, 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.</td>
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<tr>
<td>ART 3461C</td>
<td>Selected Topics in Printmaking (3) TA ART</td>
<td>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.</td>
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<tr>
<td>ART 3465</td>
<td>Digital Printmaking (3) TA ART</td>
<td>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.</td>
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<tr>
<td>ART 3513C</td>
<td>Selected Topics in Painting (3) TA ART</td>
<td>PR: ART 2203C, ARH 2050, ARH 2051, ART 2301C, ART 3310C, ART 2500C, ART 3530C. 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.</td>
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<tr>
<td>ART 3530C</td>
<td>Intermediate Painting (3) TA ART</td>
<td>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.</td>
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<tr>
<td>ART 3612C</td>
<td>Beginning Digital Video and Electronic Arts (3) TA ART</td>
<td>PR: Majors Only. An Introductory exploration of the issues and practices involved in the creation of experimental computer art. The course focuses on an interdisciplinary approach to electronic media.</td>
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<tr>
<td>ART 3613C</td>
<td>Intermediate Digital Video and Electronic Arts (3) TA ART</td>
<td>PR: ART 2201C, ART 2203C, ART 2301C, ART 3310C, ART 3612C, ARH 2050, ARH 2051. An intermediate exploration of the issues and practices involved in the creation of experimental computer art. The course focuses on an interdisciplinary approach to electronic media while developing individual creative growth. Repeatable up to 15 hours.</td>
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<tr>
<td>ART 3635</td>
<td>Selected Topics in Electronic Media (3) TA ART</td>
<td>PR: ART 2203C, ARH 2050, ARH 2051, ART 2301C, ART 3310C, ART 3612, ART3613C. Majors Only. Selected Topics in Electronic Media 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>
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<tr>
<td>ART 3709C</td>
<td>Intermediate Sculpture (3) TA ART</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>
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<tr>
<td>ART 3712C</td>
<td>Multiples, Molds, and Bronzecasting (3) TA ART</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>
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<tr>
<td>ART 3735</td>
<td>Selected Topics in Sculpture (3) TA ART</td>
<td>PR: ART 2203C, 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>
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<tr>
<td>ART 3761C</td>
<td>Intermediate Ceramics (3) TA ART</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>
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<tr>
<td>ART 3781C</td>
<td>Selected Topics in Ceramics (3) TA ART</td>
<td>PR: ART 2203C, 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>
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<tr>
<td>ART 3843C</td>
<td>Site, Installation, and Performance (3) TA ART</td>
<td>PR:</td>
<td>MAJOR</td>
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COURSE DESCRIPTIONS

UNIVERSITY OF SOUTH FLORIDA 2012-2013 UNDERGRADUATE CATALOG

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.

ART 3939 The Real World (3) TA ART
Restricted to studio majors. Offers studio students the opportunity to analyze their experiences as art majors and explore options available to visual artists upon completion of their degree.

ART 4320C Advanced Drawing (3) TA ART
PR: 15 hours of Intermediate courses in the discipline and a 3.25 major GPA or DPR. Majors Only. Continued projects in drawing. Repeatable.

ART 4402C Advanced Printmaking (3) TA ART
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.

ART 4520C Advanced Painting (3) TA ART
PR: 12 hours of Intermediate courses in the discipline and a 3.25 major GPA or DPR. Majors Only. Continued projects in painting. Repeatable.

ART 4614C Advanced Digital Video and Electronic Arts (3) TA ART
PR: 12 hours of Intermediate courses in the discipline and a 3.25 major GPA or DPR. Majors Only. Advanced exploration of the tools and practices involved in the creation of experimental computer art. The course continues as interdisciplinary approach to electronic media with a focus on individual and group projects. Repeatable.

ART 4616 Computer Animation (4) TA ART
Exploration of issues and practices involved in the creation of computer animations, focused on individual creative growth.

ART 4634C Visual Design for the Internet (3) TA ART
Restricted to majors. This upper level course builds upon the concepts students encountered in the introductory level graphic design courses and focuses upon web content creation and animation techniques.

ART 4710C Advanced Sculpture (3) TA ART

ART 4782C Advanced Ceramics (3) TA 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) TA ART
PR: Majors Only. All preparation courses plus course in Studio Workshop I.

ART 4814 Paris Art Studio (3) TA 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) TA 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) TA 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) TA 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) TA 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) TA 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) TA 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) TA ART

ART 5448C Intaglio (4) TA 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) TA ART
PR: CI. Registration by contract only. Research in painting.

ART 5740C Sculpture (4) TA ART

ART 5790C Ceramics (4) TA ART
PR: ART 2750C, DPR. Advanced problems in the various ceramic techniques, including throwing and glaze calculation. Repeatable.

ART 5910 Research (1-4) TA ART
PR: CI, DPR. Registration by contract only. Repeatable.

ASH 2270 Southeast Asian History HP AF 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 AF (4) AS HTY
Political, economic, and social history of China from the time of the first major Western contacts (17th-18th
COURSE DESCRIPTIONS

UNIVERSITY OF SOUTH FLORIDA 2012-2013 UNDERGRADUATE CATALOG

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 further 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 (4) 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 (4) BC CSD
PR: ASL 2150C, DPR. A continuation of the study of American Sign Language (ASL) at the advanced skill level. This course will further expand the student's signing skills and facial expression as an integral part of ASL. An hour of laboratory course work is included.

ASL 4201C American Sign Language 4 (4) 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 (4) 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 INT
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 AF (3) AS INT
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 AF (3) AS INT
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 AST
AST 2003 is an introduction and overview of the astronomy of the solar system. It is designed to complement AST 2004 to give a comprehensive overview of the science of astronomy.

AST 2004 Stellar Astronomy and Cosmology NS CANP (4) AS AST
AST 2004 is an introduction and overview of the Stellar astronomy and Cosmology. It is designed to complement AST 2003 to give a comprehensive overview of the science of Astronomy.

AST 3033 Contemporary Thinking in Astronomy NS (3) AS AST
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 AST
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 3652 Navigation (3) AS AST
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 AST
PR: CI. Course content will depend upon the interest of the faculty member and student demand.

ATR 1000 Introduction to Athletic Training (3) ME 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) ME 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. Medical terminology, emergency procedures, and taping procedures will be covered.

**ATR 3123 Foundations of Athletic Training (3) ME ATH**
PR: ATR 3212C. 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.

**ATR 3132 Kinesiology and Pathomechanics (3) ME ATH**
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.

**ATR 3202 Measurement and Evaluation in Athletic Training (3) ME ATH**
This course is an introduction to the study and practice of measurement and evaluation techniques used in the assessment and rehabilitation of orthopaedic injuries. AT majors only. Credit not repeatable.

**ATR 3212C Upper Extremity Assessment (3) ME ATH**
Athletic Training majors only. The study and practice of techniques used when assessing athletic injuries to the upper extremity, head and spine.

**ATR 3213C Lower Extremity Assessment (3) ME ATH**
Athletic Training majors only. The study and practice of techniques used when assessing athletic injuries to the lower extremity, hip, pelvis, low back and gait.

**ATR 3512 Athletic Training Administration and Policy (3) ME ATH**
Athletic Training majors only. Analysis and application of organizational skills and administrative structure of the athletic training profession, including current theory about budget management, medical record keeping, drug testing, facility design and maintenance, legal aspects of sports medicine, athletic physical examinations, medical ethics, current educational concepts, and administrative policy.

**ATR 3513 Documentation in Athletic Training (1) ME ATH**
PR: Admission to Athletic Training Program. CR: PET 3202 Designed to prepare athletic training students with an introduction to the foundation of appropriate terminology, documentation, and communication methods as they relate to athletic training and sports medicine. Majors only.

**ATR 3822L Clinical Experience in Athletic Training I (3) ME ATH**
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.

**ATR 3822L Clinical Experience in Athletic Training II (3) ME ATH**
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.

**ATR 4223 Advanced Athletic Training (3) ME ATH**
PR: ATR 3212C and ATR 3213C. Athletic Training majors only. Advanced techniques in athletic training including orthopedic assessment, casting and bracing and imaging techniques.

**ATR 4302C Therapeutic Modalities (3) ME ATH**
Athletic Training majors only. This course provides an introduction to the theoretical and practical applications of modalities for the prevention, management and rehabilitation of physically active individuals. Concepts pertaining to the use of pharmacology, thermotherapy, cryotherapy, electrical stimulation, hydrotherapy, fluidotherapy, ultrasound, biofeedback and manual techniques will be emphasized.

**ATR 4314C Therapeutic Rehabilitation (3) ME ATH**
Athletic Training majors only. Theories and applications methods of comprehensive therapeutic treatment and rehabilitation programs for injuries commonly sustained by the physically active.

**ATR 4432 General Medical Conditions in the Athlete (3) ME ATH**
PR: ATR 3102C 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.

**ATR 4504 Seminar in Sports Medicine 6A LW WRIN (3) ME ATH**
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.

**ATR 4832L Clinical Experience in Athletic Training III (3) ME ATH**
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.

**ATR 4842L Clinical Experience in Athletic Training IV (3) ME ATH**
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 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) ME 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) ME 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) ME 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) ME ATH**
COURSE DESCRIPTIONS

UNIVERSITY OF SOUTH FLORIDA 2012-2013 UNDERGRADUATE CATALOG

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) ME 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 3023 Introductory Biochemistry (3) AS CHM
PR: CHM 2211 and BSC 2010. Introduction to the chemistry and intermediary metabolism of biologically important substances.

BCH 3023L Basic Biochemistry Laboratory (2) AS CHM
CR: BCH 3023. Practical work in determination and characterization of important biomolecules. Lec.-lab.

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 CHM 2211, CHM 2211L, and CHM 3400 or CHM 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 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 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.

BME 5910 Directed Research in Bioengineering (1-3) EN ECH
PR: CI. Directed research in an area of biomedical engineering or engineering biotechnology.

BME 5937 Selected Topics in Biomedical Engineering (1-3) EN ECH
PR: 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.

BMS 4406 Principles of Human Pharmacology NS (3) ME MSG
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.

BMS 5005 Professions of Medicine: Foundations of Doctoring (1-19) ME MSG
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.

BMS 5015 Clinical Diagnosis and Reasoning (var.) ME MSG
This course aims to provide the student with the opportunity to "think like a physician." It will provide the venue to integrate clin diagnosis/reasoning strategies with complementary aspects of clin problem solving/phys diagnosis/evidence based medicine.

BMS 5190 Anatomy by Diagnostic Testing (1-20) ME MSG
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.

BOT 3152C Field Botany (3) 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. 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.

BOT 3373C Vascular Plants: Form and Function (4) 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. Introduction to morphology,
COURSE DESCRIPTIONS

UNIVERSITY OF SOUTH FLORIDA 2012-2013 UNDERGRADUATE CATALOG

physiology and evolution of vascular plants, integrating form and function to understand diversity. Lecture and Laboratory.

**BOT 3850 Medical Botany (3) AS BCM**
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.

**BOT 4184C Biology of Coastal Plants (4) AS BIN**
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.

**BOT 4434C Mycology (3) AS BCM**
PR: BOT 3073C or PCB 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.

**BOT 4601 Plant Ecology (3) AS BIN**
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 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 NS CANL (3) AS BCM**
PR: CHM 2045. 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 2011L Biodiversity Laboratory (1) AS BIN**
CR: BSC 2011. Laboratory portion of Biology II Diversity relating to organismal structure and function.

Microscopy, as well as plant and animal development will be stressed.

**BSC 2025 Food: Personal and Global Perspectives NS (3) AS BIN**
May be taken by biology majors for free elective credit. The application of basic biological principles to human nutritional problems; to learn how various cultures achieve adequate nutrition and how environmental changes impact both personal and global nutrition.

**BSC 2035 Sex and Today's World NS (3) AS BIN**
The application of basic biological principles to female and male sexual behavior and reproduction; current social problems are treated from a biological perspective. May be taken by majors for free elective credit.

**BSC 2050 Environment NS CANL (3) AS BIN**
A comprehensive introduction to the environment, including the scientific basis of ecology, population growth, community and ecosystem ecology, biodiversity, resource use and availability, energy production, air, water, and land pollution.

**BSC 2085 Anatomy and Physiology I for Health Professionals NS CANL (3) NU NUR**
CR: BSC 2085L. Introduction to the 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 2085L Anatomy and Physiology Lab I for Nursing and other Healthcare Professionals (1) NU 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) NU NUR**
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) NU 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**
PR: BSC 2010, BSC 2010L, BSC 2011, BSC 2011L and CHM 2045. Basic biochemistry, cell structure and function, tissues, anatomical terminology, anatomy and physiology of the integumentary, skeletal, muscular, and nervous systems. Lecture and Laboratory.

**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
### COURSE DESCRIPTIONS

**UNIVERSITY OF SOUTH FLORIDA 2012-2013 UNDERGRADUATE CATALOG**

**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 research fields and current research in the Department. Faculty members present research seminars and discuss their work.

**BSC 3022 Biology of Aging NS (3) AS BCM**
PR: One course in Life Science. An overview of cellular and molecular aspects of the aging process in human systems will be explored through lecture, discussion and virtual formats. For non-majors.

**BSC 3312 Marine Biology (3) 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. A survey of the marine environment, the types of organisms found inhabiting a variety of marine habitats, and the adaptations of the organisms to those habitats. Emphasis is placed on shallow water Florida environments. Lecture only.

**BSC 4052 Conservation Biology (3) AS BIN**
PR: PCB 3043, BSC 2010, BSC 2010L, BSC 2011, BSC 2011L, CHM 2045, CHM 2046 and Calculus (MAC 2241/2281/2311). This course provides an extensive introduction to current models and empirical study in conservation biology, including substantial hands-on experience with programming methods for study of data and models.

**BSC 4057 Environmental Issues MW (3) AS BIN**
Not for major's credit. Study of biological, economic, ethical, legal, political and social issues relating to current environmental problems.

**BSC 4313C Advanced Marine Biology (4) AS BIN**
PR: BSC 3312C A detailed analysis of marine environment in the Tampa Bay or surrounding area. Field and laboratory work will provide direct experience with the system.

**BSC 4434 Bioinformatics (3) AS BCM**
PR: PCB3063. CPR: PCB3023 This lecture-based, nonrestrictive course covers basics of molecular bioscience data management/analysis. Focus is on general computational methods, their bio-basis, and how to evaluate analysis results. Qualitative algorithm descriptions are included.

**BSC 4444 Genomics (4) AS BIN**
PR: BSC 2010, BSC 2010L, BSC 2011, BSC 2011L, CHM 2045, CHM 2046 and PCB 3063. We will be using genomic data available from multiple bioinformatics databases to answer an open-ended question fundamental to organismal evolution. The emphasis is to hone scientific inquiry skills in fledgling researchers.

**BSC 4905 Independent Study (1-3) AS BIO**
PR: CI. S/U only. May be taken by majors for free elective credit. Specialized independent study determined by the student's needs and interests. The written contract required by the Department of Biology specifies the regulations governing independent study.

**BSC 4910 Undergraduate Research (1-4) AS BIO**
PR: CHM 2210 and MAC 1105 or higher MAC course or STA 2023 or CI. CP: PCB 3023 or PCB 3043 or PCB 3063 or PCB 3712 and CHM 2211. S/U only. Junior standing and 3.0 GPA required. Individual investigation with faculty supervision. Written contract by Department is necessary prior to registration.

**BSC 4932 Honors Seminar IV (1) AS BIO**
PR: BSC 2934 and BSC 4910 or MCB 4910; CI. CP: CHM 2211. The course serves as a formal introduction to the presentation of scientific research. It is taken in the semester prior to completion of a student's own research project and the writing of the Biology Honors Thesis.

**BSC 4933 Selected Topics In Biology (1-4) AS BIO**
PR: CI. The course content will depend on student demand and instructor's interest.

**BSC 4937 Seminar in Marine Biology (2) AS BIN**
PR: BSC 3312C 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. Course focuses on developing the student's understanding of contemporary research in the field of Marine. Background information presented and assigned reading will vary according to instructor.

**BSC 4970 Biology Honors Seminar (1-3) AS BIN**
PR: BSC 2934 and either BSC 4931 or BSC 4932. Enrollment is limited to Biology Department Honors students. S/U only. A thesis based on independent research carried out by the student.

**BSC 5425 Genetic Engineering and Recombinant DNA Technology (3) AS BCM**
PCB3023, PCB3063, or either PCB3023L or PCB3063L This lecture-based course will use a problem solving approach, provide fundamental knowledge of scientific concepts and principles that form the basis of experimental methodologies in genetic engineering and recombinant DNA technology. For majors/nonmajors.

**BSC 5931 Selected Topics in Biology (1-4) AS BIO**
PR: CI.

**BUL 3320 Law And Business I (3) BU 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) BU 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) BU GBA**
PR: BUL 3320 or CI. 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,
### COURSE DESCRIPTIONS

**COURSE DESCRIPTIONS**

<table>
<thead>
<tr>
<th>Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAP 4800 Systems Simulation (3) EN ESB</td>
<td>Introduction to discrete-event simulation for performance modeling of computer systems. Topics include random number generation, workload generation, queuing theory, simulation languages, model design, and output analysis.</td>
<td>3</td>
<td>COP 4530</td>
</tr>
<tr>
<td>CAP 5400 Digital Image Processing (3) EN ESB</td>
<td>Image formation, sources of image degradation, image enhancement techniques, edge detection, operators, and threshold selection, low-level processing algorithms for vision, image data compression.</td>
<td>3</td>
<td>COP 4530</td>
</tr>
<tr>
<td>CAP 5625 Introduction to Artificial Intelligence (3) EN ESB</td>
<td>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.</td>
<td>3</td>
<td>COP 4530</td>
</tr>
<tr>
<td>CAP 5771 Data Mining (3) EN ESB</td>
<td>Scalable supervised and unsupervised machine learning methods are discussed. Methods to visualize and extract heuristic rules from large databases with minimal supervision is discussed.</td>
<td>3</td>
<td>Undergraduate Statistics</td>
</tr>
<tr>
<td>CBH 4004 Comparative Psychology (3) AS PSY</td>
<td>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.</td>
<td>3</td>
<td>PSY 3213</td>
</tr>
<tr>
<td>CCE 4031 Construction Management (3) EN EGX</td>
<td>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.</td>
<td>3</td>
<td>EGN 3613C</td>
</tr>
<tr>
<td>CCE 5035 Construction Management &amp; Planning (3) EN EGX</td>
<td>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.</td>
<td>3</td>
<td>EGN 3613C</td>
</tr>
<tr>
<td>CCJ 3014 Crime and Justice in America SS CASB (4) BC CJP</td>
<td>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.</td>
<td>4</td>
<td>Junior standing</td>
</tr>
<tr>
<td>CCJ 3024 Survey of the Criminal Justice System SS (3) BC CJP</td>
<td>An introduction to the structure and operation of law enforcement, prosecution, the courts, and corrections. Also includes brief coverage of major reported crimes.</td>
<td>3</td>
<td>Junior standing, CCJ 3024 or CI</td>
</tr>
<tr>
<td>CCJ 3117 Theories of Criminal Behavior (3) BC CJP</td>
<td>Provides a basic understanding of the complex factors related to crime, with concentration on principal theoretical approaches to the explanation of crime.</td>
<td>3</td>
<td>Junior standing, CCJ 3024 or CI</td>
</tr>
<tr>
<td>CCJ 3621 Patterns of Criminal Behavior (3) BC CJP</td>
<td>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 offense, syndicated (organized) crimes, consensual crimes, female crime, political crime, and will examine criminal career data.</td>
<td>3</td>
<td>Junior standing</td>
</tr>
<tr>
<td>CCJ 3666 Victimology (3) AP CJP</td>
<td>This course examines the field of Victimology. It covers the victim's role in the criminal justice process, patterns and theories of victimology, victim-offender relationships and victims' rights.</td>
<td>3</td>
<td>CCJ 3024, UC, C-</td>
</tr>
<tr>
<td>CCJ 3701 Research Methods in Criminal Justice I (3) BC CJP</td>
<td>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.</td>
<td>3</td>
<td>Junior standing and a grade of C or better (a grade of C- is not acceptable) in CCJ 3117. Introduces the student to some of the fundamentals of knowledge-generating processes in understanding crime and criminal justice.</td>
</tr>
<tr>
<td>CCJ 4224 Miscarriages of Justice (3) BC CJP</td>
<td>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 abolishment.</td>
<td>3</td>
<td>Junior standing, CCJ 3117 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.</td>
</tr>
<tr>
<td>CCJ 4361 Death Penalty (3) BC CJP</td>
<td>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 abolishment.</td>
<td>3</td>
<td>Junior standing, CCJ 3117 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.</td>
</tr>
<tr>
<td>CCJ 4450 Criminal Justice Administration (3) BC CJP</td>
<td>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.</td>
<td>3</td>
<td>Junior standing, CCJ 3117 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.</td>
</tr>
<tr>
<td>CCJ 4604 Abnormal Behavior and Criminality (3) BC CJP</td>
<td>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 abolishment.</td>
<td>3</td>
<td>Junior standing, CCJ 3117 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.</td>
</tr>
<tr>
<td>CCJ 4613 Forensic Psychology (3) BC CJP</td>
<td>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.</td>
<td>3</td>
<td>Junior standing, CCJ 3117 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.</td>
</tr>
<tr>
<td>CCJ 4651 Drugs and Crime (3) BC CJP</td>
<td>The objective of this course is to provide the student a comprehensive understanding of the dynamics of drug use in American society.</td>
<td>3</td>
<td>Junior standing, CCJ 3117 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.</td>
</tr>
</tbody>
</table>
| CCJ 4662 Race and Crime (3) BC CJP | The course focuses on race (racial bias, racial inferiority, cultural norms and adaptations) and social class (structural deficiencies, economic deprivation,
COURSE DESCRIPTIONS

UNIVERSITY OF SOUTH FLORIDA 2012-2013 UNDERGRADUATE CATALOG

CCJ 4681 Domestic Violence (3) BC CJP
This course is designed to examine the criminal justice systems 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 CJP
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 sex offender treatment and management.

CCJ 4700 Statistical Research Methods in Criminal Justice II (3) BC CJP
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 CJP
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 CJP
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 CJJE 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, CI. 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 Criminal Justice for the number of hours required.

CCJ 4940 Internship For Criminal Justice Majors (3) BC CJP
PR: CCJ 3024, CCJ 3117, CCJ 3621. The student, under the direction of a faculty member, will formalize, conduct, analyze, and report in writing a research project in the Department of Criminal Justice. The course is not repeatable. Majors only.

CDA 3101 Computer Organization for Information Technology (3) AS EIT
PR: Any Physics major, course and GGS 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 3554 and PHY 3514; CR: CDA 201L and Degree Program Admission. CSE and EE majors. Others by special permission. Advanced coverage of Computer Organization, 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 3013, COP 3514; CR: CDA 3201L and Degree Program Admission. CSE and EE majors. Others by special permission. Advanced coverage of 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.
COURSE DESCRIPTIONS

UNIVERSITY OF SOUTH FLORIDA 2012-2013 UNDERGRADUATE CATALOG

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. CR: CDA 4213. Covers analysis and design of digital systems using VHDL simulation. Provides experience with field programmable logic gates and gate arrays. Introduces the requirements for field programmable systems; testing of circuitry, and analysis of system design.

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) AM 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
COURSE DESCRIPTIONS

UNIVERSITY OF SOUTH FLORIDA 2012-2013 UNDERGRADUATE CATALOG

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.

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 at design for durability and reliability.

CES 4750 Capstone Structural/Geotechnical Material Design MW CPST (3) EN EGX

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 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
The professional and ethical responsibility of engineers. The legal and ethical responsibilities of engineers in the preparation of contracts and specification. The ethics of engineer-client agreements.

CGN 4851 Concrete Construction Materials (3) EN EGX
PR: EGN 3365. Classifications and production of cements. Design and testing of concrete mixes to produce desired properties.

CGN 4905 Independent Study (1-5) EN EGX
PR: CC. S/U only. Specialized independent study determined by the students’ needs and interests.

CGN 4933 Special Topics in Civil and Environmental Engineering (1-5) EN EGX
PR: CI. New technical topics of interest to civil engineering students.

CGN 5933 Special Topics in Civil Engineering and Mechanics (1-5) EN EGX
PR: CI. New technical topics of interest to civil engineering students.

CGS 2034 Computers and Impact on Society SS CASB (3) EN ESB
This course surveys current technology, and its application to various other disciplines. The course includes technical descriptions and protocols for computers. The course compares interdisciplinary applications between fields using technology.

CGS 2060 Introduction to Computers and Computer Programming 6A CAQR (3) EN ESB
No credit for Engineering Majors. Introduction to computer programming using a modern high-level language and the application of computational methods to problem solving. Overview of computer systems and their application and role in society.

CGS 2062 Computers And Society (3) EN ESB
No credit for Engineering Majors. For non-engineering majors only. This computer literacy course covers the fundamentals of hardware, software, and programming languages, presents a broad overview of data processing concepts, problems and applications for students with little or no computing background.

CGS 2094 Cyber Ethics AF SS CAGC (3) EN ESB
Many ethical issues, e.g. privacy, freedom of speech, security, intellectual property, and workplace globalization, are impacted by computing and related technology. These issues are examined from theoretical, cultural, and philosophical perspectives.

CGS 2100 Computers In Business (3) BU QMB
A study of the use and impact of computers in all areas of business organizations. Course includes hands-on experience and the use of software packages for business analysis.

CGS 2935 Special Topics in General Computer Studies (1-3) EN ESB
Courses are one-time topics in general computer studies, applicable to all students. Specific course titles will be specified when the course is posted on the schedule.

CGS 3303 IT Concepts (3) AS EIT
PR: Any PHY course. A lecture and problem solving course which deals with subjects related to computer and information technology. A broad range of conceptual and practical topics in IT are covered.

CGS 3373 Foundations of Information Technology I (4) AM EIT
PR: Admission to the IT Program. The course will act as a breadth-first view of Informatics, including computing technology fundamentals and networking concepts. The major concepts are presented in a manner that will make clear the “big picture” of the discipline.

CGS 3374 Foundations of Information Technology II (4) AM EIT
PR: CGS 3373. The course provides a comprehensive and integrated understanding of computer functions. It combines both computer hardware organization and supporting operating systems structures to enhance the students’ problem solving skills.

CGS 3845 Electronic Commerce (3) AS EIT
PR: COP 2510 or equivalent. An overview of how E-Commerce evolved, what EC is; how it is being conducted and managed; its major opportunities, issues, and risks. Discussions include: The Internet, intranets, firewalls, etc. Exercises will use various Web pages and software packages.

CGS 3847 e-Commerce II (3) AM EIT
PR: COP 4834. The course guides students in developing a fully functioning e-commerce website.

CGS 3850 Web Development:JavaScript (3) AM EIT
PR: CGS 3853. JavaScript, a client-side programming language is used to develop interactive Web pages/sites. A simple OO language, its dynamic functionality is quickly inserted into a Web page. Used on the WWW, it is the most popular programming language worldwide.

CGS 3853 IT Web Design (3) AS EIT
PR: COP 2510 or equivalent. An overview of how the Internet and the WWW evolved, and how Electronic Commerce is supported by web pages. The student will do exercises relative to HTML and how browsers show that code. The student will also learn to use web page development packages.

CGS 4855 Intermediate Web Development (jQuery) (3) AM EIT
PR: CGS 3850. This course provides more practical and professional tools for working with Cascading Style Sheets (CSS) and JavaScript using the jQuery and the jQuery UI (User Interface) libraries.

CGS 4856 Intermediate Web Design (HTML5) (3) AM EIT
PR: CGS 3853, CGS 3850, CGS 4855. This course continues from the first courses in Web Design and Web Development to add the new concepts and capabilities of HTML5.

CHI 1120 Modern Chinese I (4) AS WLE
CR: CHI 1120L. Mandarin. An intensive study of basic skills: pronunciation, listening, comprehension, speaking, and some composition.

CHI 1120L Modern Chinese I Laboratory (1) AS WLE
CR: CHI 1120. 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.

CHI 1121 Modern Chinese II (4) AS WLE
CR: CHI 1121L. Mandarin. PR: CHI 1120 or equivalent. A continuation of CHI 1120. More sophisticated oral/aural skills are attained. Basic reading skills are acquired.

CHI 1121L Modern Chinese II Laboratory (1) AS WLE
CR: CHI 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.

CHI 2220 Modern Chinese III (4) AS WLE
PR: CHI 1121 or the equivalent. For language students who intend to attain basic proficiency.

CHI 2221 Modern Chinese IV (4) AS WLE
PR: CHI 2220 or the equivalent. Continuation of CHI 2220. Practice of writing, speaking and listening skills for language students who intend to attain basic proficiency.

CHI 3241 Advanced Chinese Conversation I (4) AS WLE
PR: Successful completion of CHI 2221 or permission of instructor. This is the first of a two-course sequence in advanced spoken Mandarin Chinese at the third-year level. Particular emphasis is placed on student performance in commonly encountered contexts in Chinese culture, both formal and informal.

CHI 3242 Advanced Chinese Conversation II (4) AS WLE
PR: CHI 3241. This is the second of a two-course sequence in advanced spoken Mandarin Chinese at the third-year level. Particular emphasis is placed on student performance in commonly encountered contexts in Chinese culture, both formal and informal.

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, thermochemistry, 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
### COURSE DESCRIPTIONS

**UNIVERSITY OF SOUTH FLORIDA 2012-2013 UNDERGRADUATE CATALOG**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PR: CHM 2046, CHM 2046L</td>
<td>Fundamental principles of inorganic chemistry including atomic structure, bonding theories and structural consequences, transition metal chemistry and illustrative laboratory work.</td>
<td></td>
</tr>
<tr>
<td>CHM 3610L</td>
<td>Intermediate Inorganic Chemistry Laboratory (1) AS CHM</td>
<td>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.</td>
</tr>
<tr>
<td>CHM 4060</td>
<td>Useful Chemical Literature (1) AS CHM</td>
<td>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.</td>
</tr>
<tr>
<td>CHM 4070</td>
<td>Historical Perspectives in Chemistry 6A MW (3) AS CHM</td>
<td>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.</td>
</tr>
<tr>
<td>CHM 4130C</td>
<td>Methods of Chemical Investigation I (4) AS CHM</td>
<td>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.</td>
</tr>
<tr>
<td>CHM 4131C</td>
<td>Methods of Chemical Investigation II (4) AS CHM</td>
<td>Continuation of CHM 4130C. Lec.-lab.</td>
</tr>
<tr>
<td>CHM 4300</td>
<td>Biomolecules I (3) AS CHM</td>
<td>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.</td>
</tr>
<tr>
<td>CHM 4410</td>
<td>Physical Chemistry I (4) AS CHM</td>
<td>Thermodynamics, the state of matter and solutions are presented. The course includes a recitation.</td>
</tr>
<tr>
<td>CHM 4410L</td>
<td>Physical Chemistry Laboratory (1) AS CHM</td>
<td>A physical chemistry laboratory with emphasis on modern techniques and instruments. Lab.</td>
</tr>
<tr>
<td>CHM 4411</td>
<td>Physical Chemistry II (4) AS CHM</td>
<td>Introduction to quantum mechanics and molecular spectroscopy. Chemical Kinetics and statistical mechanics are also presented. The course includes a recitation.</td>
</tr>
<tr>
<td>CHM 4413</td>
<td>Biophysical Chemistry (3) AS CHM</td>
<td>This course will cover spectroscopy, bonding and kinetics with emphasis placed on biological molecules and biochemical reactions.</td>
</tr>
<tr>
<td>CHM 4611</td>
<td>Advanced Inorganic Chemistry (3) AS CHM</td>
<td>An advanced descriptive and theoretical treatment of inorganic compounds.</td>
</tr>
<tr>
<td>PR: CI. S/U only.</td>
<td>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.</td>
<td></td>
</tr>
<tr>
<td>CHM 4932</td>
<td>Selected Topics in Chemistry (1-3) AS CHM</td>
<td>The course content will depend on the interest of faculty members and student demand.</td>
</tr>
<tr>
<td>PR: CI. S/U only.</td>
<td>Undergraduate Research (1-3) AS CHM</td>
<td></td>
</tr>
<tr>
<td>CHM 5225</td>
<td>Intermediate Organic Chemistry I (3) AS CHM</td>
<td>This course will extend organic chemistry beyond the undergraduate level and will emphasize concepts of stereochemistry and reaction mechanisms.</td>
</tr>
<tr>
<td>PR: Either CHM 2211, CHM 2211L, and CHM 3400 or CHM 4410 or graduate standing. Fundamentals of polymer synthesis, structure, properties, and characterization.</td>
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</tr>
<tr>
<td>CHM 5526</td>
<td>Intermediate Organic Chemistry II (3) AS CHM</td>
<td>PR: Either CHM 2211, CHM 2211L, and CHM 3400 or CHM 4410 or graduate standing. Fundamentals of polymer synthesis, structure, properties, and characterization.</td>
</tr>
<tr>
<td>CHM 5621</td>
<td>Principles of Inorganic Chemistry (3) AS CHM</td>
<td>PR: Either CHM 2211, CHM 4610 or CI or GS. Chemical forces, reactivity, periodicity, and literature in organic chemistry; basic core course.</td>
</tr>
<tr>
<td>CHM 5931</td>
<td>Selected Topics in Chemistry (1-3) AS CHM</td>
<td>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.</td>
</tr>
<tr>
<td>CHS 2440</td>
<td>General Chemistry for Engineers (3) AS CHM</td>
<td>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.</td>
</tr>
<tr>
<td>CHS 2440L</td>
<td>General Chemistry for Engineers Lab (1) AS CHM</td>
<td>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.</td>
</tr>
<tr>
<td>CHS 4300</td>
<td>Fundamentals of Clinical Chemistry (3) AS CHM</td>
<td>PR: BCH 3023. Theoretical and practical aspects of the analysis of various body fluids, with emphasis on the medical significance.</td>
</tr>
<tr>
<td>CHS 4301L</td>
<td>Clinical Laboratory (2) AS CHM</td>
<td>PR: BCH 3023 and CI, CHM 3120C. Laboratory experience in some of the most important clinical determinations. Lec.-Lab.</td>
</tr>
<tr>
<td>CHT 3110</td>
<td>Traditional Chinese Literature in Translation (3) AS WLE</td>
<td>This course is a general survey of traditional Chinese literature from the beginnings to the Qing Dynasty (1911). Major genres including philosophical texts, etc.</td>
</tr>
</tbody>
</table>
COURSE DESCRIPTIONS

UNIVERSITY OF SOUTH FLORIDA 2012-2013 UNDERGRADUATE CATALOG

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 with contemporary Chinese society. The language of instruction is English.

CIS 3303 Unified Modeling Language (3) AM 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 EIT
PR: Admission to BSAS Concentration. Board review of Information Security and related elements. Includes terminology, history of the discipline, overview of information security program management. Suitable for IS, criminal justice, political science, accounting information systems students

CIS 3362 Cryptography and Information Security (3) AS EIT
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 EIT
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) AM EIT
PR: COP 3515 and COP 3601. 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 EIT
Topics to be chosen by students and instructor permitting newly developing subdisciplinary special interests to be explored.

CIS 4203 Computer Forensics & Investigations (3) AM 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) AM 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 EIT
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 EIT
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 EIT
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) AM 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) AM 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 EIT
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.
COURSE DESCRIPTIONS

UNIVERSITY OF SOUTH FLORIDA 2012-2013 UNDERGRADUATE CATALOG

CIS 4510 I.T. Project Management (3) AS EIT
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) AM 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 4515 Managing Global/Remote Teams (3) AM EIT
PR: CIS 4510 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 4524 IT Project Schedule & Cost Control (3) AM 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) AM 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. S/U only. Specialized independent study determined by the needs and interests of the student and approved by the department.

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 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 EIT
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 EIT
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.

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 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 professionals.

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.

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, typically
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  
A comprehensive look at the Greek-speaking world after Alexander the Great, from Italy to India. Emphasis is on the social, intellectual and aesthetic changes brought about by colliding cultures.

**CLA 3930** Selected Topics (3) AS WLE  
An examination of various aspects of Greek and Roman Culture, based on ancient sources, literary and archaeological. Repeatable as topics vary.

**CLA 4501** Women in Antiquity 6A MW WRIN (3) AS WLE  
Women in Antiquity surveys the social, political, and cultural life of women in the ancient Mediterranean world, historically and thematically, through lecture, reading, video, and slide presentations.

**CLA 4930** Selected Topics (1-4) AS WLE  
Course content depends on student demand and instructor's interest and may range over the whole field of ancient languages, literatures and civilizations. Offerings on a semi-regular basis include Tongues of the Bible and the Bible as History.

**CLP 2001** Psychology of Adjustment SS (3) AS PSY  
Genetic, organic, and learned factors involved in the processes of personal adjustment; applications of mental health principles to everyday living.

**CLP 4143** Abnormal Psychology (3) AS PSY  
PR: PSY 3213 with a grade of C or better or Cl. Descriptions, theoretical explanations, research evidence, and treatment of maladaptive behavior.

**CLP 4314** Health Psychology (3) AP PSY  
PR: PSY 2012 and PSY 3204 with a grade of C or better. This course provides survey of contributions of psychological principles, behavioral sciences: basic tools for communicating clearly with professionals. Ethical issues will be reviewed and an introduction to behavior analysis, and application of learning principles, behavioral sciences: basic tools for communicating clearly with professionals.

**CLP 4414** Behavior Modification (3) AS PSY  
PR: PSY 3213 with a grade of C or better or Cl. Introduction to behavior analysis, and application of learning principles, behavioral sciences: basic tools for communicating clearly with professionals.

**CLP 4433** Psychological Tests and Measurement (3) AS PSY  
PR: PSY 3213 with a grade of C or better or Cl. Students may not receive credit for both CLP 4433 and EDF 4430. A consideration of the instruments for psychological tests. Theory of measurement, research designs, and interventions in treatment settings.

**CLP 4620** Ethics in Psychology and Health (3) AP PSY  
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.

**CLP 4941** Community Practicum in Selected Topics (1-9) AP PSY  
PR: C or better in PSY 4931, junior standing and at least 6 hours in Psychology. Service-learning for student to apply psychological principles learned in the classroom to volunteer experiences. Community is defined at the local, national and international level. Free-standing practicum or with a corequisite course.

**CLT 2044** Wordpower from Latin and Greek (3) AS WLE  
Study of Greek/Latin elements as a means of building English vocabulary. Examination of Greek/Latin-based terminology from various scientific fields, its adoption into English and current usage. Attention given to Greek/Latin stems, prefixes, suffixes.

**CLT 3040** Scientific and Medical Terminology (3) AS WLE  
A course in the Greek and Latin word elements used in science and technology.

**CLT 3103** Greek Literature in Translation 6A MW WRIN (3) AS WLE  
This class investigates the most important texts of the Archaic and Classical Greek world, which are analyzed in both in a chronological sequence (c. 700 to 399 BCE) and by genre (epic poetry, philosophy, lyric, history, and drama).  

**CLT 3123** Roman Literature in Translation 6A MW WRIN (3) AS WLE  
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 their classification into various literary genres.

**CLT 3370** Classical Mythology (3) AS WLE  
CLT 3370 is a survey of the myths, legends, and sagas of the Greeks and Romans chronologically (c. 1200 BCE to 17 CE) and thematically through literature (prose and poetry), iconography (art and architecture), and film (documentary and dramatic.)

**CLT 3511** Fictional Rome in American Film (3) AS WLE  
This course surveys films 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.

**CNP 3403** Network Security and Firewalls (3) AS EIT  
PR: EEL 4782. This course surveys network security standards and emphasizes applications that are widely used on the Internet and for corporate networks. This course also examines Firewalls and related tools used to provide both network and perimeter security.

**CNP 4004** Computer Networks I (3) EN ESB  
PR: COP 4530. An introduction to the design and analysis of computer communication networks. Topics include application layer protocols, Internet protocols, network interfaces, local and wide area networks, wireless networks, bridging and routing, and current topics.

**CNP 4504** Networks II (3) EN ESB  
PR: CNP 4004. Networking skills, hands-on experience in technologies and protocols, with emphasis on Internet technologies. Topics: Operation, Analysis and Evaluation of distributed systems, communication hardware/software, network monitoring and performance tools.

**COM 2000** Introduction to Communication SS (3) AS SPE  
Introduction to the roles, contexts, and issues in contemporary human communication. Required of Communication majors.

**COM 2130** Communication Skills for Health Professionals (3) AP SPE  
Skills-oriented course for students interested in health sciences: basic tools for communicating clearly with patients, clients and non-medical audiences; also brings a scholarly understanding of general communication-related issues in medical professions.

**COM 3014** Communication, Gender and Identity (3) AS SPE
### COURSE DESCRIPTIONS

**UNIVERSITY OF SOUTH FLORIDA 2012-2013 UNDERGRADUATE CATALOG**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Pre-Requisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>PR: COM 2000 with C- or above or consent of instructor (CI).</td>
<td>Examines the communicative origins and implications of gender roles.</td>
<td>3</td>
<td>AS SPE</td>
</tr>
<tr>
<td>COM 3051 Analyzing Culture and Media</td>
<td>Applies theories of media and media industries to analysis of media texts to investigate relationships among culture, media, representation, and democracy. Majors only; non-majors by permit only.</td>
<td>3</td>
<td>SPC 2541</td>
</tr>
<tr>
<td>COM 3052 Cultural Studies and Communication</td>
<td>Application of theories and methods of Cultural Studies to communication research. Emphasis on critical analysis of processes by which culture is produced, circulated, and negotiated. Majors only; non-majors by permit only. May not be repeated for credit.</td>
<td>3</td>
<td>SPC 2541, COM 3051</td>
</tr>
<tr>
<td>COM 3110 Communication For Business and the Professions</td>
<td>For non-majors only. Identification of communication situations specific to business and the professions. Analysis of variables related to communication objectives and preparation of oral presentations in the form of informational reports, conference management, persuasive communications, interviews, and public hearings.</td>
<td>3</td>
<td>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 3120 Organizational Communication</td>
<td>A study of communication theory relative to persuasive interviewing with an emphasis on career interview situations.</td>
<td>3</td>
<td>COM 2000 with C- or above or consent of instructor (CI).</td>
</tr>
<tr>
<td>COM 3122 Interview Communication</td>
<td>A study of communication theory relative to persuasive interviewing with an emphasis on career interview situations.</td>
<td>3</td>
<td>COM 2000</td>
</tr>
<tr>
<td>COM 3413 Communication and Visual Culture</td>
<td>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>
<td>3</td>
<td>COM 2000</td>
</tr>
<tr>
<td>COM 4016 Public Memory</td>
<td>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>
<td>3</td>
<td>COM 2000, SPC 2541</td>
</tr>
<tr>
<td>COM 4020 Communicating Illness, Grief, and Loss</td>
<td>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>
<td>3</td>
<td>COM 2000 with C- or above or consent of instructor (CI).</td>
</tr>
<tr>
<td>COM 4021 Family Communication and the End of Life</td>
<td>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>
<td>3</td>
<td>COM 2000, SPC 3301</td>
</tr>
<tr>
<td>PR: COM 2000 with C- or above or consent of instructor (CI).</td>
<td>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>
<td>3</td>
<td>SPC 3301</td>
</tr>
<tr>
<td>COM 4030 Women and Communication</td>
<td>Examines women’s patterns of communication in a variety of contexts. Also offered under Women’s Studies.</td>
<td>3</td>
<td>COM 2000, SPC 2541</td>
</tr>
<tr>
<td>COM 4050 Globalization and Democratic Discourse</td>
<td>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>
<td>3</td>
<td>COM 2000, SPC 2541</td>
</tr>
<tr>
<td>COM 4104 Communication, Tourism, and Travel</td>
<td>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>
<td>3</td>
<td>COM 2000, SPC 3301</td>
</tr>
<tr>
<td>COM 4124 Communication and Organizational Change</td>
<td>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>
<td>3</td>
<td>COM 2000 with C- or above or COM 3120 or consent of instructor (CI).</td>
</tr>
<tr>
<td>COM 4128 Integrated Organizational Communication</td>
<td>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>
<td>3</td>
<td>COM 2000, SPC 2541</td>
</tr>
<tr>
<td>COM 4151 Communication and Working Life in Cont Orgs</td>
<td>Explores workers and organizations through socialization, self-presentation, technologies, identity issues, and work-family balance. Majors only; others by permission of instructor.</td>
<td>3</td>
<td>COM 2000, SPC 2541</td>
</tr>
<tr>
<td>COM 4225 Global &amp; Cultural Issues in Health Communication</td>
<td>Explores issues in global health, culture, and communication in health care initiatives. For majors; non-majors by permit only. May not be repeated for credit.</td>
<td>3</td>
<td>COM 4022</td>
</tr>
<tr>
<td>COM 4414 Race and Gender in Popular Film and Television</td>
<td>Explores representations of race and gender in contemporary TV and film and utilizes feminist and critical race theories to interrogate social inequalities. Majors only.</td>
<td>3</td>
<td>COM 2000, SPC 2541</td>
</tr>
<tr>
<td>COM 4490 Communication and Love</td>
<td>Examines concepts, philosophy, and theories of love in connection with communication skills. Majors only; others by permission of instructor.</td>
<td>3</td>
<td>SPC 2541, COM 3051</td>
</tr>
<tr>
<td>COM 4530 Influencing Public Opinion</td>
<td>Explores foundations, history, measurement techniques, and persuasive strategies of public opinion research and practice from rhetorical perspectives. Not repeatable for credit.</td>
<td>3</td>
<td>COM 2000, SPC 2541</td>
</tr>
<tr>
<td>COM 4702 Communication, Language, and Mental Illness</td>
<td>Explores intersection of mental illness and communication as language, talk-in-</td>
<td>3</td>
<td>COM 2000, SPC 3301</td>
</tr>
</tbody>
</table>
interaction, and discourse as social practice. 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 EIT**
Special topics course.

**COP 2030 Programming Concepts I (3) AM 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) AM 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) AM 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 EIT**
Special topics course.

**COP 2931 Special Topics for Information Technology (1-3) AS EIT**
Special topics course.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Prerequisites</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>COP 4365</td>
<td>Software System Development (3) EN ESB</td>
<td>PR: COP 4530</td>
<td>Analysis, design, and development of software systems using objective methodology with object-oriented programming and advanced software development tools (such as integrated development environments).</td>
</tr>
<tr>
<td>COP 4376</td>
<td>Programming Concepts III (Jython) (3) AM EIT</td>
<td>PR: CEN 3040 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 both worlds by bridging between the elegant, expressive code of the Python world and the “enterprise ready” Java world.</td>
<td></td>
</tr>
<tr>
<td>COP 4530</td>
<td>Data Structures (3) EN ESB</td>
<td>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.</td>
<td></td>
</tr>
<tr>
<td>COP 4600</td>
<td>Operating Systems (3) EN ESB</td>
<td>PR: COP 4530</td>
<td>Design of operating systems. Concurrent processing, synchronization, and storage management policies.</td>
</tr>
<tr>
<td>COP 4610</td>
<td>Operating Systems for Information Technology (3) AS EIT</td>
<td>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 laboratory.</td>
<td></td>
</tr>
<tr>
<td>COP 4610L</td>
<td>Operating Systems Laboratory for Information Technology (1) AS EIT</td>
<td>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.</td>
<td></td>
</tr>
<tr>
<td>COP 4620</td>
<td>Compilers (3) EN ESB</td>
<td>PR: COP 4530</td>
<td>Introduction to techniques for compiling software; lexical, syntactic, and semantic analyses; abstract syntax trees; symbol tables; code generation and optimization.</td>
</tr>
<tr>
<td>COP 4656</td>
<td>Software Development for Mobile Devices (3) EN ESB</td>
<td>PR: COP 4530</td>
<td>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.</td>
</tr>
<tr>
<td>COP 4703</td>
<td>Database Systems for Information Technology (3) AS EIT</td>
<td>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.</td>
<td></td>
</tr>
<tr>
<td>COP 4710</td>
<td>Database Design (3) EN ESB</td>
<td>PR: COP 4530</td>
<td>This course covers the fundamentals and applications of database management systems, including data models, relational database design, query languages, and web-based database applications.</td>
</tr>
<tr>
<td>COP 4814</td>
<td>Web Services (3) AS EIT</td>
<td>PR: CI. The Web services model, based on the Open Standards of SOAP, WSDL, and UDDI, is studied and applied.</td>
<td></td>
</tr>
<tr>
<td>COP 4816</td>
<td>XML Applications (3) AS EIT</td>
<td>PR: CI. Completion of prerequisites for admission to IT program. This course introduces extensible Markup Language (XML), a technology for exchanging structured information over the Internet, and examines a sampling of its many applications.</td>
<td></td>
</tr>
<tr>
<td>COP 4834</td>
<td>Data-Driven Web Sites (3) AS EIT</td>
<td>PR: CI. Completion of prerequisites for admission to IT program. Junior standing or above. This course builds on students' knowledge of Web development and databases by adding server-side scripting using the PHP language to interact with the mySQL database system to build transaction processing and report generating systems over the Internet.</td>
<td></td>
</tr>
<tr>
<td>COP 4854</td>
<td>Rich Internet Applications (3) AM EIT</td>
<td>PR: CGS 3850, CGS 3853, COP4816. This capstone course introduces needed technologies in the context of applications to explain links with one another. A number of tools (captured under Rich Internet Applications) are needed to make all of these existing technologies work together.</td>
<td></td>
</tr>
<tr>
<td>COP 4930</td>
<td>Information Technology Seminar (1-3) AS EIT</td>
<td>PR: Senior standing in Information Technology. A survey of current Information Technology topics are covered to keep the IT student abreast of the variety of domains associated with their major. Speakers with a wide variety of IT experience will give seminars to senior IT students.</td>
<td></td>
</tr>
<tr>
<td>COP 4931</td>
<td>Special Topics for Information Technology (1-4) AS EIT</td>
<td>Topics to be chosen by students and instructor permitting newly developing subdisciplinary special interests to be explored.</td>
<td></td>
</tr>
<tr>
<td>COP 5016</td>
<td>Introduction to Unix and C (3) EN ESB</td>
<td>No credit for Department of Computer Science &amp; Engineering majors. Unix operating system, Internet resources. Netscape, WWW and HTML. ANSI C language, syntax. Arrays and pointers. Iterations and recursions. Header files and macros. C libraries. Structuring data. File I/O.</td>
<td></td>
</tr>
<tr>
<td>COT 3100</td>
<td>Introduction to Discrete Structures (3) EN ESB</td>
<td>PR: MAC 2281 or equivalent. Introduction to set algebra, propositional calculus and finite algebraic structures as they apply to computer systems.</td>
<td></td>
</tr>
<tr>
<td>COT 4115</td>
<td>Advanced Discrete Structures with Cryptology (3) EN ESB</td>
<td>PR: COP 4530, COT 3100. Advanced topics in discrete mathematics: number theory, groups, rings and fields, finite fields, and combinatorics, as applied to computer systems. Theoretical application of mathematic concepts to coding theory and cryptography.</td>
<td></td>
</tr>
<tr>
<td>COT 4210</td>
<td>Automata Theory and Formal Languages (3) EN ESB</td>
<td>PR: COT 3100, COP 4530. Introduction to the theory and application of various types of computing devices and the languages they recognize.</td>
<td></td>
</tr>
<tr>
<td>COT 4400</td>
<td>Analysis Of Algorithms (3) EN ESB</td>
<td>PR: COT 3100, COP 4530. Design principles and analysis techniques applicable to various classes of computer algorithms frequently used in practice.</td>
<td></td>
</tr>
<tr>
<td>COT 4521</td>
<td>Computational Geometry (3) EN ESB</td>
<td>PR: COT 4521</td>
<td></td>
</tr>
</tbody>
</table>
### COURSE DESCRIPTIONS

**UNIVERSITY OF SOUTH FLORIDA 2012-2013 UNDERGRADUATE CATALOG**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CPO 2002</td>
<td>Introduction to Comparative Politics SS (3) AS POL</td>
<td>Comparison and analysis of representative European and non-Western political systems.</td>
</tr>
<tr>
<td>CPO 4034</td>
<td>Politics of the Developing Areas SS AF (3) AS POL</td>
<td>An analysis of the ideologies, governmental structures, and political processes of selected nations of the non-Western world.</td>
</tr>
<tr>
<td>CPO 4930</td>
<td>Comparative Government and Politics of Selected Countries or Areas (3) AS POL</td>
<td>Studies political systems with common elements. Structure, process, domestic and foreign politics, and regional roles are considered.</td>
</tr>
<tr>
<td>CPO 5934</td>
<td>Selected Topics in Comparative Politics (3) AS POL</td>
<td>Sr./GS. Studies specific substantive areas in Comparative Politics, such as political economy or the politics of specific countries or regions.</td>
</tr>
<tr>
<td>CRW 2100</td>
<td>Narration and Description 6A (3) AS ENG</td>
<td>A study of narrative and descriptive techniques in prose. By making the student sensitive to language usage, the course is designed to bridge the gap between expository writing and imaginative writing.</td>
</tr>
<tr>
<td>CRW 3013</td>
<td>Creative Writing (3) AP ENG</td>
<td>PR: ENC 1102. This course will introduce students to the fundamental tools of creative writing: how to generate ideas, recognize and develop a writer’s “voice,” choose a form and genre, assess and edit creative work, and how professional writers work on their craft.</td>
</tr>
<tr>
<td>CRW 3111</td>
<td>Form and Technique of Fiction 6A (3) AS ENG</td>
<td>A study of short narrative forms such as the anecdote, tale, character sketch, incident, monologue, episodical story, and short story as they have been used in the development of fiction and as they exist today. Will not count toward the English major.</td>
</tr>
<tr>
<td>CRW 3112</td>
<td>Fiction I 6A (3) AS ENG</td>
<td>PR: CRW 2100 or CRW 3111. An introduction to fiction writing, beginning with a practical study of the various elements of fiction and proceeding through the many processes of revision to arrive at a completed work of art.</td>
</tr>
<tr>
<td>CRW 3121</td>
<td>Fiction II 6A (3) AS ENG</td>
<td>PR: CRW 2100 or CRW 3111, CRW 3112. A fiction workshop which provides individual and peer guidance for the student's writing and which encourages the development of critical skills.</td>
</tr>
<tr>
<td>CRW 3311</td>
<td>Form and Technique of Poetry (3) AS ENG</td>
<td>An examination of the techniques employed in fixed 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.</td>
</tr>
<tr>
<td>CRW 3312</td>
<td>Poetry I (3) AS ENG</td>
<td>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.</td>
</tr>
<tr>
<td>CRW 3321</td>
<td>Poetry II (3) AS ENG</td>
<td>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.</td>
</tr>
<tr>
<td>CRW 4120</td>
<td>Fiction I 3 (3) AS ENG</td>
<td>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.</td>
</tr>
<tr>
<td>CRW 4320</td>
<td>Poetry III (3) AS ENG</td>
<td>PR: CRW 3311, CRW 3112, 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.</td>
</tr>
<tr>
<td>CRW 4924</td>
<td>Advanced Creative Writing (3) AP ENG</td>
<td>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.</td>
</tr>
<tr>
<td>CTS 3165</td>
<td>Linux Essentials (3) AM EIT</td>
<td>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.</td>
</tr>
<tr>
<td>CTS 4348</td>
<td>Linux Administration (3) AM EIT</td>
<td>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.</td>
</tr>
<tr>
<td>CTS 4805</td>
<td>Web Development Tools (3) AS EIT</td>
<td>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.</td>
</tr>
<tr>
<td>CWR 4202</td>
<td>Hydraulics (3) EN EGX</td>
<td>PR: EGN 3553. Fundamental and applied aspects of pipe flow, free surface flow, and unsteady flow for hydraulic systems.</td>
</tr>
<tr>
<td>CWR 4540</td>
<td>Water Resources Engineering I (3) EN EGX</td>
<td>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.</td>
</tr>
<tr>
<td>CWR 4541</td>
<td>Water Resources Engineering II (3) EN EGX</td>
<td>PR: EGN 3553, 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.</td>
</tr>
<tr>
<td>CWR 4812</td>
<td>Capstone Water Resources/Environmental Design MW CPST (3) EN EGX</td>
<td>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</td>
</tr>
</tbody>
</table>
COURSE DESCRIPTIONS

UNIVERSITY OF SOUTH FLORIDA 2012-2013 UNDERGRADUATE CATALOG

industrial and domestic water treatment and water transport systems and hydraulic systems.

DAA 2100 Fundamentals Of Modern Dance (2) TA 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) TA 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 six credit hours.

DAA 2200 Fundamentals Of Ballet (2) TA 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) TA 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) TA 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) TA 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) TA 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) TA 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) TA 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 3208 Ballet II (3) TA 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 3209 Ballet III (2-3) TA DAN

DAA 3294 Ballet Variations (1) TA 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) TA 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) TA 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) TA DAN
PR: DAA 3614. Preparation of studies in rhythm, dynamics, form and motivation.

DAA 3624 Dance Improvisation (2) TA 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) TA DAN
PR: Admission by audition. The development and performance of solo and/or group dances.

DAA 3684 Repertory II (1) TA DAN
PR: Admission by audition. The development and performance of solo and/or group dances.

DAA 3686 Junior Performance Project (1) TA 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) TA 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 (3-4) TA 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) TA DAN
PR: DAA 3615. CR: DAA 3108 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) TA DAN
COURSE DESCRIPTIONS

UNIVERSITY OF SOUTH FLORIDA 2012-2013 UNDERGRADUATE CATALOG

PR: DAA 4616. The student will prepare studies based on free form, minimal art, and chance methods. Lec-
lab., reading.

DAA 4887 Performance (1-2) TA 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) TA 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 concurrence of a faculty advisor.

DAA 4930 Dance Studies (1-4) TA 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) TA 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) TA 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) TA 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 Practicum In Dance Production (2) TA DAN
A practicum in mounting dance concerts with shop work and backstage participation. Intended for students working in costume, stage makeup, light presentation, stage management and production crew. Dance majors must have 4 credits. May be repeated.

DAN 3614 Music For Dance (2) TA 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) TA DAN

DAN 3714 Dance Kinesiology (3) TA 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 Dance History Through the 19th Century 6A LW (3) TA DAN
Designed for majors and non-majors, this course will present a comprehensive view of the evolution of dance as an art form from its origins through the 19th Century. It is designed to develop awareness and insight through lecture, discussion, video, observation and writing.

DAN 4135 20th Century Dance MW (3) TA 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) TA 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) TA 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) TA 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) TA 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) TA 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, 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) HT HUN
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.
## COURSE DESCRIPTIONS

### UNIVERSITY OF SOUTH FLORIDA 2012-2013 UNDERGRADUATE CATALOG

**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) ED 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 4009 Directed Study: Behavior Disorders (1-3) ED 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 3023C or CI. 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, transfer 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 design 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 chemical equilibrium and kinetics, heat transfer and fluid mechanics into the hierarchical description of reacting systems. Analysis and selection of operating conditions and contacting models. Sizing. Restricted to department majors.

**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
PR: ECH 3023C, ECH 3343, EGN 3433 or MAP 2302.
Computer usage in chemical engineering. Use of
computer methods to solve chemical engineering
problems. Solution of linear and nonlinear algebraic
and differential equations that arise in chemical
engineering. Optimization methods.

ECH 4905 Independent Study (1-4) EN ECH
PR: CI. Specialized independent study determined by
the student, majors 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
CP: ECH 3023C. Introduction to the profession. Career
development. Information sources for Chemical
Engineers. Professional organizations. Ethics in the
profession. Safety and Chemical Engineering. Lifelong
learning. Leadership in the profession. Legal issues.

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
machines, 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 4323C 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
principles 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 and how
engineering provides the tools to design solutions
engaging materials science & environmental ethics.

ECH 5786 Green Engineering (3) EN ECH
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) BU ECN
No credit after completing either ECO 2023 or ECO
Scarcity, choice, markets, prices, the monetary system,
unemployment, inflation, international trade and
finance.

ECO 2013 Economic Principles (Macroeconomics) SS
CASB (3) BU ECN
ECO 2013 introduces students to basic economic
terminology, definitions and measurements
macroeconomic data, simple macroeconomic models,
fiscal and monetary policy, and international
macroeconomic linkages.

ECO 2023 Economic Principles (Microeconomics) SS (3)
BU 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) BU 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) BU 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) BU 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) BU ECN
PR: ECO 2013 and ECO 2023. Growth and evolution of
American economic institutions from Colonial times to
the present.

ECO 3703 International Economics MW (3) BU ECN
## COURSE DESCRIPTIONS

**UNIVERSITY OF SOUTH FLORIDA 2012-2013 UNDERGRADUATE CATALOG**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECO 4105</td>
<td>Advanced Price Theory (3) BU ECN</td>
<td>PR: ECO 3101 or ECP 3703 with a grade of &quot;B&quot; 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.</td>
</tr>
<tr>
<td>ECO 4201</td>
<td>Advanced Macroeconomic Theory (3) BU ECN</td>
<td>PR: ECO 3203 with a grade of &quot;B&quot; 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.</td>
</tr>
<tr>
<td>ECO 4270</td>
<td>Economic Growth (3) BU ECN</td>
<td>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.</td>
</tr>
<tr>
<td>ECO 4323</td>
<td>Radical Political Economy MW (3) BU ECN</td>
<td>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.</td>
</tr>
<tr>
<td>ECO 4401</td>
<td>Introduction to Mathematical Economics (3) BU ECN</td>
<td>PR: ECO 3101 or ECP 3703, and MAC 2241 or MAC 2233 or CI. Mathematical models of optimizing behavior and economic equilibrium.</td>
</tr>
<tr>
<td>ECO 4421</td>
<td>Introduction to Econometrics (3) BU ECN</td>
<td>PR: ECO 3101 or ECP 3703, and QMB 3200 with a grade of &quot;B&quot; or better or CI. Survey of basic econometric techniques. Regression analysis employed to estimate consumption, investment, demand, cost, and production functions. Examines problems of autocorrelation, heteroscedasticity, multicollinearity, and specification errors.</td>
</tr>
<tr>
<td>ECO 4504</td>
<td>Public Finance (3) BU ECN</td>
<td>PR: ECO 3101 or ECP 3703 with a grade of &quot;C&quot; or better. The public sector and its contribution to economic welfare. Government expenditures and revenues. Resource allocation, income distribution, stabilization, and economic growth.</td>
</tr>
<tr>
<td>ECO 4704</td>
<td>International Trade and Policy (3) BU ECN</td>
<td>PR: ECO 3101 or ECP 3703 with a grade of &quot;C&quot; or better. Advanced analysis of international trade theory and commercial policy, international economic integration, multinational enterprise.</td>
</tr>
<tr>
<td>ECO 4713</td>
<td>International Macroeconomics (3) BU ECN</td>
<td>PR: ECO 3101 or ECP 3703 with a grade of &quot;C&quot; or better. Advanced analysis of international macroeconomic relationships. Foreign exchange market, international monetary system balance of payments.</td>
</tr>
<tr>
<td>ECO 4905</td>
<td>Independent Study (1-3) BU ECN</td>
<td>PR: CI. S/U only. Specialized independent study determined by the student's needs and interests. May be repeated up to 6 hours.</td>
</tr>
<tr>
<td>ECO 4914</td>
<td>Independent Research (1-3) BU ECN</td>
<td>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.</td>
</tr>
<tr>
<td>ECO 4935</td>
<td>Selected Topics in Economics (1-3) BU ECN</td>
<td>Topics to be selected by the instructor or instructors on pertinent economic issues.</td>
</tr>
<tr>
<td>ECP 3201</td>
<td>Economics of Women and Work MW (3) BU ECN</td>
<td>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.</td>
</tr>
<tr>
<td>ECP 3203</td>
<td>Labor Economics (3) BU ECN</td>
<td>PR: PR: ECO 3101 or ECP 3703 with a grade of &quot;C.&quot; 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.</td>
</tr>
<tr>
<td>ECP 3302</td>
<td>Environmental Economics MW (3) BU ECN</td>
<td>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.</td>
</tr>
<tr>
<td>ECP 3413</td>
<td>Economics of Regulation and Antitrust (3) BU ECN</td>
<td>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.</td>
</tr>
<tr>
<td>ECP 3530</td>
<td>Economics of Health (3) BU ECN</td>
<td>PR: ECO 3101 or ECP 3703 with a grade of &quot;C.&quot; 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.</td>
</tr>
<tr>
<td>ECP 3613</td>
<td>Economics of the Urban Environment MW (3) BU ECN</td>
<td>PR: ECO 1000 or ECO 2013 or ECO 2023 or CI. Economic analysis of cities and urban social problems. Poverty, discrimination, housing, transportation, pollution, crime, and fiscal considerations.</td>
</tr>
<tr>
<td>ECP 3703</td>
<td>Managerial Economics (3) BU ECN</td>
<td>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.</td>
</tr>
<tr>
<td>ECP 4006</td>
<td>Economics of Sports (3) BU ECN</td>
<td>PR: ECO 3101 or ECP 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.</td>
</tr>
<tr>
<td>ECP 4451</td>
<td>Law and Economics (3) BU ECP</td>
<td>PR: ECO 3101 or ECP 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.</td>
</tr>
</tbody>
</table>
COURSE DESCRIPTIONS

UNIVERSITY OF SOUTH FLORIDA 2012-2013 UNDERGRADUATE CATALOG

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.

ECT 4505 Economics of Crime (3) BU ECN

ECT 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) BU ECN

ECS 4003 Comparative Economic Systems MW (3) BU 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 AF MW (3) BU ECN
PR: ECO 1000, or BOTH ECO 2013 and ECO 2023. 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 4003 Basic Teaching Methods in Vocational Education (4) ED EDV
Examines the role of the vocational educator in the learning process; looks at factors that promote and inhibit learning. Reviews a wide variety of instructional approaches, techniques and methods; includes selection of techniques for situations.

ECT 4004 History and Principles of Vocational Education (4) ED EDV
An overview of current policies and principles in vocational education including their historical, sociological, and philosophical bases. Open to majors and non-majors.

ECT 4183 Curriculum Construction: Industrial-Technical Education (4) ED EDV
Design, development, implementation and evaluation of effective curricular materials in industrial, technical and health related occupations; includes individualized and self-paced materials. Open to majors and non-majors.

ECT 4367 Assessing Student Skill in Industrial Technical Education (4) ED EDV
Techniques for assessing student’s mastery of skills in industrial/technical education. Focuses on specific competencies including developing and administering performance tests, monitoring student progress, and others. Open to majors and non-majors.

ECT 4562 Vocational Education for Special Needs Students (4) ED EDV
Focuses on modifying the vocational education curriculum, laboratory, shop, student outcomes, learning activities, tests, media, etc. to accommodate the unique learning needs of minority, handicapped, disadvantaged, non-traditional and other special needs students.

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 Classroom Management, School Safety, Ethics, Law and Elementary Methods (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 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 six hours per week in a supervised inschool experience and attend weekly seminar.

EDE 4942 Childhood Education Internship Level II (3-6) 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 DESCRIPTIONS

**UNIVERSITY OF SOUTH FLORIDA 2012-2013 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 2005</td>
<td>Introduction to the Teaching Profession</td>
<td>3</td>
<td>EDC</td>
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<tr>
<td>EDF 2065</td>
<td>Introduction to Diversity for Educators</td>
<td>3</td>
<td>EDC</td>
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<tr>
<td>EDF 3122</td>
<td>Learning and the Developing Child</td>
<td>3</td>
<td>EDF</td>
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<tr>
<td>EDF 3132</td>
<td>Child and Adolescent Development</td>
<td>3</td>
<td>EDF</td>
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<tr>
<td>EDF 3214</td>
<td>Human Development And Learning</td>
<td>3</td>
<td>EDF</td>
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<tr>
<td>EDF 3514</td>
<td>History of Education in the United States</td>
<td>3</td>
<td>HP CASB HHCP</td>
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<tr>
<td>EDF 3604</td>
<td>Schools and Society</td>
<td>3</td>
<td>EDF</td>
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<tr>
<td>EDF 4124</td>
<td>Child Growth and Learning</td>
<td>3</td>
<td>EDF</td>
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<tr>
<td>EDF 4131</td>
<td>Learning And The Developing Adolescent</td>
<td>3</td>
<td>EDF</td>
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<tr>
<td>EDF 4430</td>
<td>Measurement For Teachers</td>
<td>3</td>
<td>ED EQ</td>
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<tr>
<td>EDF 4440</td>
<td>Conceptual and Assessment of All Students</td>
<td>4</td>
<td>ED EDF</td>
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<tr>
<td>EDF 4490</td>
<td>Studies in Research Design</td>
<td>3</td>
<td>ED EDF</td>
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<tr>
<td>EDF 4905</td>
<td>Independent Study: Educational Foundations</td>
<td>1-4</td>
<td>ED EDF</td>
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<tr>
<td>EDF 5607</td>
<td>Trends in Education Politics</td>
<td>3</td>
<td>ED EDF</td>
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<tr>
<td>EDC 2701</td>
<td>Teaching Diverse Populations and Field Experience</td>
<td>3</td>
<td>EDC</td>
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<tr>
<td>EDC 3943</td>
<td>Integrated Clinical Experience Grades K-5</td>
<td>3</td>
<td>EP EDU</td>
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<tr>
<td>EDC 4012</td>
<td>Standards Based Education</td>
<td>1</td>
<td>EP EDU</td>
</tr>
<tr>
<td>EDC 4444</td>
<td>Instructional Design and Classroom Management</td>
<td>3</td>
<td>EP EDU</td>
</tr>
<tr>
<td>EDC 4620</td>
<td>Curriculum and Instruction</td>
<td>3</td>
<td>ED EDC</td>
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</tbody>
</table>

### Course Descriptions

**EDF 4124 Child Growth and Learning (3) EDF**

- **Course Description:** An introduction to child development and learning from an educational and psychological perspective. Emphasis is on the application of relevant constructs as they would reflect developmentally appropriate practices in early childhood learning settings.

**EDF 4131 Learning And The Developing Adolescent (3) ED EDF**

- **Course Description:** 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.

**EDF 4430 Measurement For Teachers (3) ED EDQ**

- **Course Description:** 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.

**EDF 4440 Measurement Concepts and Assessment of All Students (4) EP EDQ**

- **Course Description:** European and African contact to the classroom. Including the needs of English Language Learners and students with exceptionalities.

**EDG 2701 Teaching Diverse Populations and Field Experience (3) ED EDC**

- **Course Description:** 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.

**EDG 3943 Integrated Clinical Experience Grades K-5 (3) EP EDU**

- **Course Description:** Practical application in a clinical setting of knowledge acquired in the classroom. Includes placements for elementary and exceptional student education.

**EDG 4012 Standards Based Education (1) EP EDU**

- **Course Description:** 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. Includes the needs of English Language Learners and students with varying abilities.

**EDG 4012 Standards Based Education (1) EP EDU**

- **Course Description:** 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.

**EDG 4444 Instructional Design and Classroom Management (3) EP EDU**

- **Course Description:** Examines the legal issues affecting classroom/school management, school safety, professional ethics, & elementary school methods; explores best practices of a variety of teaching/management strategies deemed appropriate for diverse elementary settings.

**EDG 4620 Curriculum and Instruction (3) ED EDC**

- **Course Description:** Examines the legal issues affecting classroom/school management, school safety, professional ethics, & elementary school methods; explores best practices of a variety of teaching/management strategies deemed appropriate for diverse elementary settings.

**EDG 4620 Curriculum and Instruction (3) ED EDC**

- **Course Description:** An introduction to the field of curriculum and instruction. Emphasis is placed on principles of curriculum development and use of instructional strategies. Students will develop, implement, and evaluate a variety of lesson plans.

**EDG 4909 Directed Studies (1-4) ED EDC**

- **Course Description:**
### COURSE DESCRIPTIONS

**UNIVERSITY OF SOUTH FLORIDA 2012-2013 UNDERGRADUATE CATALOG**

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>PR: Senior standing, Offered only as a scheduled class. Department permit required. To extend competency in teaching field.</td>
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<tr>
<td>EDG 4934 Final Intern Seminar (1) EP EDU</td>
<td>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.</td>
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<tr>
<td>EEC 2000 Introduction to Early Childhood Education (3) ED EDU</td>
<td>An overview of early childhood education with emphasis on its historical development, current theories, and practices.</td>
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<tr>
<td>EEC 4008 Literature in Early Childhood Education 6A LW (3) ED EDU</td>
<td>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.</td>
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<tr>
<td>EEC 4203 Programs for Young Children (3) ED EDU</td>
<td>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 early childhood 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.</td>
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<tr>
<td>EEC 4211 Integrated Curriculum: Science and Mathematics (3) ED EDU</td>
<td>PR: Admission to College of Education, EDF 4111. Early Childhood majors only. Develops an understanding of science and mathematical concepts for the appropriate stages of cognitive development of young children. Emphasis will be placed on how science and mathematics are integrated throughout the curriculum and become valued functional tools.</td>
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<tr>
<td>EEC 4212 Integrated Curriculum: Social Sciences/Humanities &amp; Art (3) ED EDU</td>
<td>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.</td>
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<tr>
<td>EEC 4303 Creative and Affective Experiences for Young Children (3) ED EDU</td>
<td>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.</td>
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<tr>
<td>EEC 4307 Cognitive Experiences for Young Children (3) ED EDU</td>
<td>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.</td>
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<tr>
<td>EEC 4408 Child, Family &amp; Teacher Relations (3) ED EDU</td>
<td>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.</td>
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<tr>
<td>EEC 4604 Classroom Management and Guidance of Young Children (3) ED EDU</td>
<td>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.</td>
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<tr>
<td>EEC 4706 Language and Emerging Literacy (3) ED EDU</td>
<td>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 ESE children.</td>
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<tr>
<td>EEC 4905 Independent Study: Early Childhood Education (1-4) ED EDU</td>
<td>PR: S/U only. Early Childhood majors only. Specialized independent study determined by the student's needs and interests.</td>
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<tr>
<td>EEC 4909 Directed Study: Early Childhood Education (1-3) ED EDU</td>
<td>PR: Senior standing. To extend knowledge in teaching field.</td>
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<tr>
<td>EEC 4936 Senior Seminar in Early Childhood Education CPST (3) ED EDU</td>
<td>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.</td>
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<tr>
<td>EEC 4940 Internship: Early Childhood (10) ED EDU</td>
<td>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.</td>
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<tr>
<td>EEC 4941 Field Experience I (3) ED EDU</td>
<td>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.</td>
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</tbody>
</table>
| EEC 4942 Field Experience II (3) ED EDU  | PR: Admission to College of Education, EDF 4111. 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
COURSE DESCRIPTIONS

UNIVERSITY OF SOUTH FLORIDA 2012-2013 UNDERGRADUATE CATALOG

implications of development for program planning for both typical and atypical children.

EEE 4943 Field Experience III (3) ED EDU
PR: Admission to College of Education, EDF 4111. Early Childhood majors only. Field placement in kindergarten or primary grades 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 emphasis on the solution 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 emphasis on semiconductor electronics. Includes the analysis and design of amplifiers and switching circuits.

EEE 3394 Electronic Materials (3) EN EN
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.

EEE 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 5356 Integrated Circuit Technology (3) EN EGE
PR: EEL 4351 or GS. Physics and Chemistry of integrated circuit and discrete device fabrication, materials limitations, processing schemes, failure and yield analysis. A laboratory is integral to the course.

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 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 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 4943 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, EEE 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
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 and digital communication systems. Theory is put into practice by investigating a variety of applications. Lectures and projects develop understanding of modern communication systems design and analysis.

EEL 4567 Electro-Optics (3) EN EGE  
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.

EEL 4657 Linear Control Systems (3) EN EGE  

EEL 4657L Linear Controls Laboratory (1) EN EGE  
PR: EEL 3100; CR: EEL 4657. This laboratory introduces students to the techniques needed for the design and implementation of automatic industrial control systems. Students will learn the basics of the software and hardware used for the design and implementation of control systems.

EEL 4705 Logic Design (3) EN EGE  
PR: EGN 3373 with a minimum grade of B for EE students only. Binary number systems; truth functions; Boolean algebra; canonical forms; minimization of combinational logic circuits; synchronous logic circuits in computers.

EEL 4705L Logic Laboratory (1) EN EGE  
CR: EEL 4705. Develops designs and demonstrates logic concepts, schematic capture, design implementation, simulation and design verification.

EEL 4743L Microprocessor Laboratory (1) EN EGE  
CR: EEL 4744. Application of microprocessors and microcontrollers for data entry, processing, display and real time signal input/output and control.

EEL 4744 Microprocessor Principles and Applications (3) EN EGE  

EEL 4756 Digital Signal Processing (3) EN EGE  
PR: EEL 4102 Sampling and quantization of signals; frequency-domain representations, transforms; digital filtering filter structures; DFT, FFT; multi-rate processing, Special analysis.

EEL 4782 Computer Information Networks for Information Technology (3) AS EIT  
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.

EEL 4782L Information Networks Laboratory for Information Technology (1) AS EIT  
CR: 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.

EEL 4854 Data Structures and Algorithms for Information Technology (3) AS EIT  
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.

EEL 4905 Independent Study (1-5) EN EGE  
PR: CI. S/U only. Specialized independent study determined by the students' needs and interests.

EEL 4906 Professional Issues and Engineering Design MW (3) EN EGE  
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.

EEL 4914 Senior Project Design CPST (3) EN EGE  
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.)

EEL 4935 Special Electrical Engineering Topics I (1-4) EN EGE

EEL 4936 Special Electrical Engineering Topics II (1-4) EN EGE

EEL 4937 Special Electrical Engineering Topics III (1-4) EN EGE

EEL 5250 Power System Analysis (3) EN EGE  
PR: EGN 3375. Analysis and design technique for AC power systems.

EEL 5462 Antenna Theory (3) EN EGE  
PR: EEL 4471 or GS. Antenna theory beginning with fundamental parameter definitions and continuing with mathematical concepts, elemental antennas and arrays.

EEL 5594L Wireless Circuits and Systems Laboratory (2) EN EGE  
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.

EEL 5771 Introduction to Computer Graphics I (3) EN ESB  
PR: COP 4530. An introduction to the evolution of computer graphics including point plotting, line drawing, two-dimensional transformations and graphics software packages.

EEL 5935 Special Electrical Engineering Topics I (1-3) EN EGE

EEL 5936 Special Electrical Engineering Topics II (1-3) EN EGE

EEL 5937 Special Electrical Engineering Topics III (1-3) EN EGE

EX 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 research, 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 4931. 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 6A LW CPST (3) ED EDS
This course is designed to offer students a meaningful way to interpret and understand exceptionalities.

EEX 4764 Instructional and Adaptive Technologies for Exceptionalities (3) EP 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 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

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 clinical experiences with exceptional students populations 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
COURSE DESCRIPTIONS

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 multicultural 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, consultation, 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, 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 production, 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 the 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 ST12 650 or EAC2 29 or AP66 3 or AP68 3 or AP69. CR: EGN 3000. Introduction to field work 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

EGN 3353 Basic Fluid Mechanics (3) EN EGB

EGN 3358 Thermodynamics, Fluids, and Heat Transfer (4) EN EGB
PR: PHY 2049. Thermodynamic concepts of energy, entropy, work and heat and thermodynamic cycles. 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.

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.

391
# COURSE DESCRIPTIONS

**UNIVERSITY OF SOUTH FLORIDA 2012-2013 UNDERGRADUATE CATALOG**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>EGN 3433</td>
<td>Modeling and Analysis of Engineering Systems (3) EN EGB</td>
<td>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.</td>
</tr>
<tr>
<td>EGN 3443</td>
<td>Probability and Statistics for Engineers (3) EN EGB</td>
<td>PR: MAC 2282. An introduction to the basic concepts of statistical analysis with special emphasis on engineering applications.</td>
</tr>
<tr>
<td>EGN 3615</td>
<td>Engineering Economics with Social and Global Implications SS CASB (3) EN EGB</td>
<td>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.</td>
</tr>
<tr>
<td>EGN 3835</td>
<td>Globalization and Technology SS CAGC HHCP (3) EN EGB</td>
<td>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.</td>
</tr>
<tr>
<td>EGN 4366</td>
<td>Materials Engineering II (3) EN EGB</td>
<td>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.</td>
</tr>
<tr>
<td>EGN 4427</td>
<td>Numerical &amp; Computer Tools I in Civil &amp; Env Eng (3) EN EGB</td>
<td>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.</td>
</tr>
<tr>
<td>EGN 4450</td>
<td>Introduction to Linear Systems (2) EN EGB</td>
<td>PR: MAC 2282. Study and application of matrix algebra, differential equations and calculus of finite differences.</td>
</tr>
<tr>
<td>EGN 4905</td>
<td>Independent Study (1-5) EN EGB</td>
<td>PR: CI. Specialized independent study determined by the students' needs and interests.</td>
</tr>
<tr>
<td>EGN 4930</td>
<td>Special Topics in Engineering (0-3) EN EGB</td>
<td>PR: CI. New technical topics of interest to engineering students.</td>
</tr>
<tr>
<td>EGN 5421</td>
<td>Engineering Applications for Vector Analysis (3) EN EGB</td>
<td>Vector methods in electromagnetism and fluid mechanics. Vector operators, line and flux integrals, potential and transport theorems, applications.</td>
</tr>
<tr>
<td>EGN 5423</td>
<td>Neural Networks and Mathematics for Communication (3) EN EGB</td>
<td>PR: Basics of differential equations and matrix algebra. Advanced matrix algorithms: LU and QR factorizations, least-squares, pseudoinverse. Techniques for optimization.</td>
</tr>
<tr>
<td>EGN 5424</td>
<td>Engineering Applications of Complex Analysis (3) EN EGB</td>
<td>Analytic functions, conformal mapping, residue theory, Laurent series, transforms. Applications to various problems in engineering and physics.</td>
</tr>
<tr>
<td>EGS 1113</td>
<td>Introduction to Design Graphics (3) EN EGB</td>
<td>PR: EGN 3443. 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.</td>
</tr>
<tr>
<td>EIN 3241</td>
<td>Ergonomics I (3) AS EIT</td>
<td>PR: MAC 2281. This course demonstrates the critical importance of ergonomic tools and underlying physical human capacities.</td>
</tr>
<tr>
<td>EIN 4142</td>
<td>Project Management (3) EN EGB</td>
<td>PR: EGN 3443. Provide principles and techniques for planning, scheduling and managing projects in engineering and related environments. Applies analytical tools and techniques including software to solve project management problems. Not restricted. Non-repeatable.</td>
</tr>
<tr>
<td>EIN 4242</td>
<td>Ergonomics II (3) AS EIT</td>
<td>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.</td>
</tr>
<tr>
<td>EIN 4243C</td>
<td>Human Factors 6A (3) EN EGS</td>
<td>PR: EGN 3443. Design of man-machine systems, by taking into consideration both human and machine capabilities and limitations.</td>
</tr>
<tr>
<td>EIN 4312C</td>
<td>Work Analysis (3) EN EGS</td>
<td>PR: EGN 3613C or EGN 3615.</td>
</tr>
</tbody>
</table>
### COURSE DESCRIPTIONS

<table>
<thead>
<tr>
<th>Department</th>
<th>Course Title</th>
<th>Credits</th>
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</tr>
</thead>
<tbody>
<tr>
<td>EIN 4891</td>
<td>Capstone Design MW CPST (3)</td>
<td>EN EGS</td>
<td>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, productivity/manufacturability, and delivery.</td>
</tr>
<tr>
<td>EIN 4933</td>
<td>Special Topics in Industrial Engineering (1-5)</td>
<td>EN EGS</td>
<td>Special topics related to economic analysis, optimization, human factors, manufacturing and automation aspect of industrial systems. Repeatable up to 5 credit hours.</td>
</tr>
<tr>
<td>EIN 5174</td>
<td>Total Quality Management Concepts (3)</td>
<td>EN EGS</td>
<td>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.</td>
</tr>
<tr>
<td>EIN 5182</td>
<td>Principles of Engineering Management (3)</td>
<td>EN EGS</td>
<td>Introduction to the fundamentals of planning, organizing and leadership as needed by engineers, scientists, and other professionals considering management positions.</td>
</tr>
<tr>
<td>EIN 5201</td>
<td>Creativity in Technology (3)</td>
<td>EN EGS</td>
<td>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.</td>
</tr>
<tr>
<td>EIN 5275</td>
<td>Work Physiology and Biomechanics (3)</td>
<td>EN EGS</td>
<td>PR: CC, majors only. Human physiological limitations encountered in design, analysis and evaluation of machinery systems.</td>
</tr>
<tr>
<td>EIN 5350</td>
<td>Technology and Finance (3)</td>
<td>EN EGS</td>
<td>A course for technical managers that focuses on how financial and economic principles are utilized to make technical investments and manage technical enterprises.</td>
</tr>
<tr>
<td>EIN 5452</td>
<td>Engineering a Lean Enterprise (3)</td>
<td>EN EGS</td>
<td>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.</td>
</tr>
<tr>
<td>EIN 5510</td>
<td>Manufacturing Systems Analysis (3)</td>
<td>EN EGS</td>
<td>PR: CC, majors only. The study of systems of manufacturing entities such as machine tools, robots, and materials handlers. Emphasis is on mathematical description of integrated systems and system optimization.</td>
</tr>
<tr>
<td>EMA 4003</td>
<td>Introduction to Materials Science (3)</td>
<td>EN ECH</td>
<td>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.</td>
</tr>
<tr>
<td>EMA 4324</td>
<td>Corrosion of Engineering Materials I (3)</td>
<td>EN EGX</td>
<td>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.</td>
</tr>
<tr>
<td>EMA 5326</td>
<td>Corrosion Control (3)</td>
<td>EN EGX</td>
<td>PR: EGN 3365. Provide understanding of corrosion fundamentals. Introduce design for corrosion detection, protection, and control. Acquire research project experience.</td>
</tr>
<tr>
<td>EME 2040</td>
<td>Introduction to Technology for Educators (3)</td>
<td>ED EDK</td>
<td>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.</td>
</tr>
<tr>
<td>EML 3022</td>
<td>Computer Aided Design and Engineering (3)</td>
<td>EN EGR</td>
<td>PR: EML 3500. This course is intended for developing graphics design concepts in undergraduate students. Learning engineering drawing fundamentals, design views, and design and analysis of mechanical engineering power transmission components using computer aided software.</td>
</tr>
<tr>
<td>EML 3035</td>
<td>Programming Concepts for Mechanical Engineers (1)</td>
<td>EN EGR</td>
<td>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.</td>
</tr>
<tr>
<td>EML 3041</td>
<td>Computational Methods (3)</td>
<td>EGR</td>
<td>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.</td>
</tr>
<tr>
<td>EML 3262</td>
<td>Kinematics and Dynamics of Machinery (3)</td>
<td>EN EGR</td>
<td>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.</td>
</tr>
<tr>
<td>EML 3500</td>
<td>Mechanics of Solids (3)</td>
<td>EN EGR</td>
<td>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.</td>
</tr>
</tbody>
</table>
| 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
EML 4106C Thermal Systems and Economics (3) EGR
PR: EGN 3343. Power and refrigeration cycles; fuels and combustion; internal combustion engine cycles; cogeneration; nuclear energy; methods of economic analysis.

EML 4123 Heat Transfer (3) EGR
CR: 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
PR: 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; dynamics of machinery 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 thermo-electric 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 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.

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 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 to 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: Cl. 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
PR: College-level reading and writing. ENC 1101 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). ENC 1102 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 REA
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. This 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 fiction), in which student essays are extensively criticized, edited, and discussed in individual sessions with the instructor and with peers.

ENC 3330 Rhetorical Traditions (3) AP VVA
PR: ENC 1102, with a grade of C or better. Examines 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 rhetoric, 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
<table>
<thead>
<tr>
<th>Course Code</th>
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<th>Prerequisites</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENC 3416</td>
<td>New Media for Technical Communication (3) AS ENG</td>
<td>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.</td>
<td>Requires students to understand the technical and creative aspects of digital media production.</td>
</tr>
<tr>
<td>ENC 3445</td>
<td>Introduction to the English Major (3) AP VVA</td>
<td>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 regarded as English.</td>
<td>Focuses on developing the skills necessary for English majors.</td>
</tr>
<tr>
<td>ENC 4212</td>
<td>Business &amp; Technical Editing (3) AM ENG</td>
<td>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 business and technical editing challenges in the workplace. Assignments concern research, interviewing, writing, editing, and the technology needed for successful results.</td>
<td>Unrestricted to majors; not repeatable.</td>
</tr>
<tr>
<td>ENC 4218</td>
<td>Visual Rhetoric for Technical Communication (3) AS ENG</td>
<td>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.</td>
<td>Focuses on developing visual communication skills.</td>
</tr>
<tr>
<td>ENC 4260</td>
<td>Advanced Technical Writing (3) AS ENG</td>
<td>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 papers; and feasibility reports.</td>
<td>Requires students to develop advanced technical writing skills.</td>
</tr>
<tr>
<td>ENC 4264</td>
<td>Managerial Communications (3) AM ENG</td>
<td>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.</td>
<td>Focuses on developing skills for managerial communication.</td>
</tr>
<tr>
<td>ENC 4268</td>
<td>Senior Seminar in Business &amp; Technical Writing (BTW) (3) AM ENG</td>
<td>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.</td>
<td>Requires students to consolidate learning.</td>
</tr>
<tr>
<td>ENC 4311</td>
<td>Advanced Composition (3) AS ENG</td>
<td>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.</td>
<td>Focuses on developing advanced writing skills.</td>
</tr>
<tr>
<td>ENC 4351</td>
<td>Writing for Publication (3) AP VVA</td>
<td>PR: ENC 1102 with a grade of C- or better. Develop the knowledge and skills necessary to write &amp; 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.</td>
<td>Focuses on preparing for publication.</td>
</tr>
<tr>
<td>ENC 4377</td>
<td>Advanced Rhetoric (3) AP VVA</td>
<td>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.</td>
<td>Requires interaction and participation.</td>
</tr>
<tr>
<td>ENC 4431</td>
<td>Writing and New Media (3) AP VVA</td>
<td>PR: ENC 1102 with a grade of C- or better. Engage in social networking, interactivity, virtual communities, and the issues that emerge in the creation, consumption, distribution, and publication of digital media. Students research, and create a variety of social media for a wide range of purposes.</td>
<td>Focuses on digital media.</td>
</tr>
<tr>
<td>ENC 4906</td>
<td>Business &amp; Technical Writing (BTW) Independent Study (3) AM ENG</td>
<td>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.</td>
<td>Requires students to pursue independent study.</td>
</tr>
<tr>
<td>ENC 4931</td>
<td>Selected Topics in Professional and Technical Writing (3) AS ENG</td>
<td>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.</td>
<td>Allows for exploration of specific topics.</td>
</tr>
<tr>
<td>ENC 4940</td>
<td>Professional/Technical Communications Internship (3) AS ENG</td>
<td>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.</td>
<td>Provides practical experience.</td>
</tr>
<tr>
<td>ENC 4946</td>
<td>Business &amp; Technical Writing Internship (3) AM ENG</td>
<td>PR: At least two of the following ENC courses AND instructor permission: 2210, 3250, 3310, 4906, 4212, 4263, 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.</td>
<td>Requires practical experience.</td>
</tr>
<tr>
<td>ENC 3014</td>
<td>Introduction to Literary Methodology (3) AS ENG</td>
<td>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.</td>
<td>Provides foundational knowledge.</td>
</tr>
<tr>
<td>ENC 4013</td>
<td>Literary Criticism (3) AS ENG</td>
<td>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.</td>
<td>Focuses on literary criticism.</td>
</tr>
<tr>
<td>ENC 4042</td>
<td>Studies in Theory and Criticism (3) AP VVA</td>
<td>PR: ENC 1102 with a grade of C- or better. Repeatable, 2 times, 6 credits maximum. A survey or</td>
<td>Requires exploration of theoretical and critical aspects.</td>
</tr>
</tbody>
</table>

UNIVERSITY OF SOUTH FLORIDA 2012-2013 UNDERGRADUATE CATALOG
focused study of criticism and theory, including literary and rhetorical, ancient and contemporary.
ENGL 4060 History of the English Language (3) AS ENGL
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.
ENGL 4674 Film and Culture 6A MW LW CPST WRIN (3) AS ENGL
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.
ENGL 4906 Individual Research (1-4) AS ENGL
PR: CC. Directed study in special projects.
ENGL 4907 Directed Reading (3) AS ENGL
PR: CC. Readings in special topics.
ENGL 4934 Senior Literature Seminar (3) AM ENGL
PR: ENGL 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 explore a specific topic, which will vary. This is a required course for English majors.
ENGL 4935 Honors Seminar I (3) AS ENGL
PR: Admission to English Honors Program. CR: ENGL 4936. Variable topics. Students will be expected to participate in class discussion, make formal presentations, and complete a major research project.
ENGL 4936 Honors Seminar II (3) AS ENGL
PR: Admission to English Honors Program. CR: ENGL 4935. Variable topics. Students will be expected to participate in class discussion, make formal presentations, and complete a major research project.
ENGL 4940 Internship in English (1-4) AP VVA
PR: ENGL majors only. Supervised field experience in a writing and/or reading oriented position relevant to the English major. Restricted to majors. Nonrepeatable.
ENGL 4950 Senior Portfolio (3) AP VVA
PR: ENGL 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.
ENGL 4970 Honors Thesis (3) AS ENGL
PR: ENGL 4935, ENG 4936. For students writing English Honors theses.
ENGL 3015 British Literature to 1616 (3) AS ENGL
A survey of representative prose, poetry, and drama from its beginnings through the Renaissance, including such poems and figures as Beowulf, Chaucer, Malory, More, Hooker, Skelton, Wyatt, Sidney, Spenser, Shakespeare, Donne, and Jonson.
ENGL 3016 Studies in 17th and 18th Century British Literature (3) AS ENGL
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.
ENGL 3017 Studies in 19th Century British Literature (3) AS ENGL
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.
ENGL 3026 Studies in Twentieth-Century Literature (3) AS ENGL
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, LIT, and may be taken more than once for credit.
ENGL 3230 British Literature 1616-1780 (3) AS ENGL
A survey of 17th Century and Neoclassical Literature, including such figures as Donne, Herbert, Crashaw, Vaughan, Marvell, Milton, Pope, Swift, Johnson, Boswell, and Goldsmith.
ENGL 3270 British Literature 1780-1900 (3) AS ENGL
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.
ENGL 3270 British Literature, 1900 to the Present (3) AP VVA
PR: ENGL 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.
ENGL 3273 British Literature 1900-1945 (3) AS ENGL
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.
ENGL 3331 Early Shakespeare (3) AS ENGL
A study of from five to eight of Shakespeare’s comedies, histories, and early tragedies, ending with Hamlet. Special attention to developing the student’s ability to read and interpret the text.
ENGL 3332 Late Shakespeare (3) AS ENGL
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.
ENGL 3333 Shakespeare (3) AP VVA
PR: ENGL 1102 with a grade of C- or better. This course studies conditions, conventions, & mode of representations of the early modern stage and examines Shakespeare uses of them. Along with analyzing plays in these contexts, students will experience interpretation through performance.
ENGL 3334 Shakespeare from an Historical Perspective 6A HP CAHU HHCP (3) AS ENGL
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.
ENGL 4122 19th Century British Novel (3) AS ENGL
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.
ENGL 4132 British Novel: Conrad to the Present (3) AS ENGL
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.
ENGL 4203 Introduction to Old English (3) AS ENGL
This course will give students a reading knowledge of the Old English language and introduce them to its literature.

**ENL 4303 Selected British Authors (3) AS ENG**

The study of two or three major figures in British Literature. The course may include such writers as Fielding and Austen, Keats and Yeats, Joyce and Woolf. Specific topics will vary. May be taken twice for credit with different topics.

**ENL 4311 Chaucer (3) AS ENG**

An intensive study of The Canterbury Tales and major critical concerns.

**ENL 4338 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 4341 Milton (3) AS ENG**

Study of the poetry and major prose of John Milton, with special emphasis on Paradise Lost.

**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, 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) BU 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 increasingly complex and uncertain environment.

**ENT 4014 New Venture Formation (3) BU MAN**

PR: Jr. Standing, Course for Business and Industrial Engineering students. Integrates business principles with entrepreneurship and venture creation. Synthesizes theoretical and practical aspects of entrepreneurial new business creation.

**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 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) BU 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 supply and waste water treatment. Topics include water requirements and waste volumes, water quality, physical and chemical treatment processes, and advanced wastewater treatment processes.

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 3004C Introduction to Entomology (4) 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. 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, 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 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
COURSE DESCRIPTIONS

UniversiTy of south Florida 2012-2013 Undergraduate Catalog

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 4905 Independent Study (1-5) EN EGS
pr: Cl. 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
pr: ESI 5219 or equiv., majors only PR: EGN 3443 or equivalent. Fundamental concepts of reliability. Estimation of reliability of systems and components. Measures of availability, maintainability and reliability.

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.

ETE 3003 Technology Education and Society (4) ED EDV
Introduction to programs, facilities and opportunities in teaching Technology Education. Includes historical, current and futuristic implications of technology in society.

ETE 4344 Special Teaching Methods in Technical Education (3) ED EDV
Equips Technology Education instructors with professional competencies for classroom and laboratory settings. Includes the selection of appropriate methods, planning, and delivery of instruction, along with supervision of students in laboratory areas.

ETE 4353 Special Teaching Methods: Industrial/Technology Education (4) ED EDV
Industrial techniques in industrial/technical education. Vocational Industrial Clubs of America activities may be included.

ETG 3612 Operations Management (3) TT DEA
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) TT DEA
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) TT DEA
Selected Topics in Technology I is repeatable for 12 credit hours.

ETG 3934 Selected Topics in Technology II (1-5) TT DEA
Selected Topics in Technology II is repeatable for 12 credit hours.

ETG 4930 Special Topics in Information Technology (1-4) TT DEA
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 (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 (4) 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 (4) 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 (4) 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 (4) 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 (4) 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 (4) 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 (4) AS HTY
A comparative study of economic, political, social, and intellectual developments in nineteenth century Europe.

EUH 3206 History of Twentieth Century Europe (4) AS HTY
A comparative study of economic, political, social, and intellectual developments in twentieth century Europe.

EUH 3401 Classical Greece (4) 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 (4) 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 (4) 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 (4) 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 (4) 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 (4) AS HTY
A study of major developments in British history from the 15th century to 1688.

EUH 3502 British History 1688 to Present (4) 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 democratic welfare state.

EUH 3575 History of Imperial Russia, 1669-1917 (4) 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 (4) 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 3578 History of Orthodox Religion (4) 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 INT
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 AF (3) AS INT
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
### COURSE DESCRIPTIONS

**UNIVERSITY OF SOUTH FLORIDA 2012-2013 UNDERGRADUATE CATALOG**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>EVR 4027</td>
<td>Wetland Environments</td>
<td>Study of the general properties and ecology of wetlands, examination of the distribution and functions of wetlands, and consideration of wetland conservation and policies.</td>
</tr>
<tr>
<td>EVR 4104</td>
<td>Karst Environments</td>
<td>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.</td>
</tr>
<tr>
<td>EVR 4114</td>
<td>Climate Change</td>
<td>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.</td>
</tr>
<tr>
<td>EVR 4218</td>
<td>Research Methods in Wildlife Ecology</td>
<td>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.</td>
</tr>
<tr>
<td>EVR 4873</td>
<td>Environmental Policy and Sustainability</td>
<td>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.</td>
</tr>
<tr>
<td>EVR 4900</td>
<td>Directed Readings</td>
<td>To provide advanced students with interdisciplinary research experience in areas of specific interest.</td>
</tr>
<tr>
<td>EVR 4905</td>
<td>Independent Study</td>
<td>To provide advanced students with the opportunity for independent study in areas of specific interest.</td>
</tr>
<tr>
<td>EVR 4910</td>
<td>Environmental Science and Policy Project</td>
<td>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.</td>
</tr>
<tr>
<td>EVR 4921</td>
<td>Environmental Science and Policy Seminar</td>
<td>Restricted to senior majors. S/U only. A topical reading and discussion seminar focusing on the interdisciplinary nature of environmental science and environmental policy.</td>
</tr>
<tr>
<td>EVR 4930</td>
<td>Selected Topics</td>
<td>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.</td>
</tr>
<tr>
<td>EVR 4940</td>
<td>Environmental Science Internship</td>
<td>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.</td>
</tr>
<tr>
<td>EVT 4551</td>
<td>Equity in Schools and the Workplace</td>
<td>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 changes.</td>
</tr>
<tr>
<td>EVT 4940</td>
<td>Internship: Industrial-Technical Education</td>
<td>CR: EVT 4936. S/U only. One full semester 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.</td>
</tr>
<tr>
<td>EXP 4104</td>
<td>Sensory Processes</td>
<td>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.</td>
</tr>
<tr>
<td>EXP 4204C</td>
<td>Perception</td>
<td>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.</td>
</tr>
<tr>
<td>EXP 4304</td>
<td>Motivation</td>
<td>PR: PSY 3213 with a grade of C or better or CI. A survey of motivational processes and mechanisms from physiological and psychological viewpoints.</td>
</tr>
<tr>
<td>EXP 4404</td>
<td>Psychology of Learning</td>
<td>PSY 3213 with a grade of C or better or CI. Survey of methods, empirical findings, and theoretical interpretations in conditioning and instrumental learning.</td>
</tr>
<tr>
<td>EXP 4640</td>
<td>Psychology of Language</td>
<td>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.</td>
</tr>
<tr>
<td>EXP 4680C</td>
<td>Cognitive Psychology</td>
<td>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.</td>
</tr>
<tr>
<td>FIL 1002</td>
<td>Introduction to Film Studies</td>
<td>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.</td>
</tr>
<tr>
<td>FIL 2000</td>
<td>Film: The Language Of Vision</td>
<td>Open to seniors majors. 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.</td>
</tr>
</tbody>
</table>
COURSE DESCRIPTIONS

UNIVERSITY OF SOUTH FLORIDA 2012-2013 UNDERGRADUATE CATALOG

Exploration of the history of creative filmmaking from its beginnings to the present time. Open to both majors and non-majors.

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) TA ART
Intermediate problems in film with emphasis on the exploration of materials and media and the development of individual concepts.

FIL 3845 World Cinema 6A FA (4) TA ART
Offers international perspectives through an examination of films from around the world. Each week narrative films from acclaimed directors will be screened, read about and discussed.

FIL 3854 Film Art 5A WRIN (4) TA 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.

FIL 4433C Advanced Film (3) TA ART
PR: FIL 3845. More advanced projects in filmmaking to further develop students both technically and conceptually.

FIL 5469C Cinematography (4) TA ART
PR: PGY 4520C. Advanced studio work using black and white, color and sound as technical and aesthetic factors in visual, artistic productions.

FIN 2100 Personal Finance CAQR (3) BU FIN
Not available for credit to upper-level students who have been admitted to the College of Business. May not be counted toward major requirements in FIN or GBA. Survey of the problems and techniques of personal financial planning. Includes consumer credit, insurance, home ownership, and personal investing, with attention given to current economic and legal constraints.

FIN 3233 Money and Banking (3) BU FIN
PR: ECO 2013. Examines the structure and operations of the U.S. monetary system, commercial banking, central banking, money, and capital markets, and provides an introduction to monetary theory and policy.

FIN 3403 Principles of Finance (3) BU FIN
PR: ACZ 2071, ECO 2013, and ECO 2023. Study of the processes, decision structures, and institutional arrangements concerned with the use and acquisition of funds by a firm. Includes the management of the asset and liability structure of the firm under certain and risky situations. The financial decision process will include and recognize the international as well as domestic aspects of financial management.

FIN 3604 International Finance (3) BU FIN
PR: FIN 3403. Study of factors affecting international business, assessment of risks, international managerial finance, institutions and instruments of international business finance.

FIN 4303 Financial Institutions and Markets (3) BU FIN
PR: FIN 3403. A study of financial institutions and their roles in the capital markets; includes the savings allocation, investment, and financial decision making processes.

FIN 4324 Bank Management (3) BU FIN
PR: FIN 3403. Application of traditional finance concepts to the management of commercial banks with emphasis on decision making and problem-solving techniques to major problem areas in banking.

FIN 4412 Working Capital Management (3) BU FIN
PR: FIN 3403. An examination of short-term financial management - that is, policies and decisions related to managing the current operations of a firm. Topics to be covered include cash management, credit and collection policy, inventory decisions, and sources of short-term financing.

FIN 4414 Advanced Corporation Finance (3) BU FIN
PR: FIN 3403. An examination of the financial policies of corporations, with special reference to dividend policy, financial structure, capital expenditures, acquisitions, mergers, and reorganizations.

FIN 4443 Financial Policies and Strategies (3) BU FIN
PR: FIN 4414. A senior seminar for majors in Finance. Primarily a case course examining financial policies and the application of financial analysis to alternative strategies.

FIN 4453 Finance Information Technology (3) BM FIN
PR: FIN 3403. Students develop an understanding of the data and computer technology resources available for use in analyzing financial markets. Traditional financial models and theories are examined and evaluated via statistical and regression analysis. Non-majors ok.

FIN 4461 Financial Statement Analysis (3) BU FIN
PR: FIN 3403. Provides an understanding of the relationship between financial statements produced in accordance with GAAP and the informational content such statements provide. After completing the course, the student should have a better understanding of the usefulness of published financial statements to various users in a variety of circumstances.

FIN 4504 Principles of Investments (3) BU 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) BU 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) BU 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.
COURSE DESCRIPTIONS

FIN 4560 Applied Securities Analysis (3) BU 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) BU FIN
PR: CI, CC. S/U only. Specialized independent study determined by the student's needs and interests.

FIN 4915 Independent Research (1-3) BU FIN
PR: CI, CC. The research project will be mutually determined by the student and instructor.

FIN 4934 Selected Topics in Finance (1-3) BU FIN
Topics to be selected by instructor and department chairperson on pertinent finance issues.

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 or DPR. 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 recommended 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 language and ESOL 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 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 (3) ED EDI
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
COURSE DESCRIPTIONS

UNIVERSITY OF SOUTH FLORIDA 2012-2013 UNDERGRADUATE CATALOG

commonly taught languages or in professional translation.

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 Conversation and Composition (3) HT HUN
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 (3) AS WLE
PR: FRE 1121 or equivalent. An introduction to the civilization and culture of France. In lieu of FRE 1120 and FRE 1121L. A laboratory designed to follow FRE 3420.

FRE 4241 Advanced Overseas Study (1-6) AS WLE
PR: FRE 3470 or CI. Departmental approval required.

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
COURSE DESCRIPTIONS

UNIVERSITY OF SOUTH FLORIDA 2012-2013 UNDERGRADUATE CATALOG

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, Molire, 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 15th 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 food production and service, in accordance with food standards, sanitation & safety and cost control.

GEA 2000 World Regional Geography SS HP AF CAGC (4) 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 (4) AS GPY
Variable title course to systematically study and compare special regional geography.

GEA 3405 Geography of Latin America 6A (4) 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 (4) 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 (4) AS GPY
Systematic geographic analysis of the Asian world region, with emphasis on its cultural, political, economic, environmental, and physical diversity.

GEB 2350 Doing Business Around the World SS (3) BU 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) BU GBA
Topics to be selected by department chairperson.

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) BU 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) BU GBA
PR: CI. S/U only. Specialized independent study determined by the student's needs and interests.

GEB 4915 Independent Research (1-4) BU 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) BU GBA
The content and organization of this course will vary according to the current interests of the faculty and needs of students.

**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 CANP (3) AS GPY**
This course explores the principles of physical geography; maps; earth sun relationships; meteorological, hydrological, pedological, 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 CANP (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 (4) 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 geographic 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 (4) 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 (4) 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 (4) 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 (4) AS GPY**
PR: GEO 2200 or CI. Intensive study of a topic selected from physical geography.

**GEO 4210 Process Geomorphology (4) 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 (4) 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 (4) AS GPY**
PR: GEO 2200, or CI. Systematic study of soil genesis and classification with a focus on North American and Florida soils.

**GEO 4280C Hydrology (4) AS GPY**
PR: GEO 2200 or CI. Introduction to the general principles that govern hydrologic processes. Approaches to hydrologic measurements and the application of hydrology to water-resource management issues are examined.

**GEO 4284 Water Resources Management NS (4) 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 (4) 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 (4) 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, tornados, hurricanes, freezes, heat waves, wild fires, earthquakes, tsunami, and volcanoes.

**GEO 4372 Global Conservation 6A MW (4) AS GPY**
The distribution, exploitation, and conservation of physical and human resources, ecology.

**GEO 4421 Cultural Geography (4) 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 (4) AS GPY**
PR: GEO 2400 or CI. The geographic factors underlying political decisions and influencing their outcome; the geographic consequences of these decisions; geopolitics are considered.

**GEO 4502 Economic Geography (4) AS GPY**
PR: GEO 2400 or CI. The spatial organization of economic production, consumption, and exchange systems.

**GEO 4604 Topics in Urban Geography MW (4) 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 (4) AS GPY**
PR: GEO 2400 and GEO 3164 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**
# COURSE DESCRIPTIONS

## UNIVERSITY OF SOUTH FLORIDA 2012-2013 UNDERGRADUATE CATALOG

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. Nonrepeatability.

**GER 1120 Beginning German I (4) AS WLE**
CR: GER 1120L. Development of basic skills in listening and reading comprehension, speaking and writing 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 out 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 (4) 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.

**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. Not repeatable.

**GEW 4750 Women in Contemporary German Literature and Film HP (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.

**GEW 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.
COURSE DESCRIPTIONS

UNIVERSITY OF SOUTH FLORIDA 2012-2013 UNDERGRADUATE CATALOG

GEW 5606 Faust (3) AS WLE
Sources, form, content, and literary significance of Urafaust 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 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 AF 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 mental 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 Counselling (3) BC GEY
An introduction to the study of the major mental health problems of the elderly. Current approaches to counselling 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 AF HP SS MW (3) BC GEY
PR: GEY 4327, ACG 2011, 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 4328, ACG 2011, 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 4601 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 dementia 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
### COURSE DESCRIPTIONS

**UNIVERSITY OF SOUTH FLORIDA 2012-2013 UNDERGRADUATE CATALOG**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEY 4647</td>
<td>Ethical and Legal Issues of Aging SS MW CPST (3) BC GEY</td>
<td>A consideration of the major ethical and legal issues in aging and their implications for policies, priorities, and services.</td>
</tr>
<tr>
<td>GEY 4690</td>
<td>Senior Seminar in Gerontology (3) BC GEY</td>
<td>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.</td>
</tr>
<tr>
<td>GEY 4900</td>
<td>Directed Readings (1-3) BC GEY</td>
<td>A reading program with topics in gerontology conducted under the supervision of a faculty member.</td>
</tr>
<tr>
<td>GEY 4917</td>
<td>Directed Research (1-4) BC GEY</td>
<td>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.</td>
</tr>
<tr>
<td>GEY 4935</td>
<td>Special Topics in Gerontology (3) BC GEY</td>
<td>Courses on topics such as preretirement, mental health, human services organization, nursing home administration, the older woman, and elder abuse will be offered.</td>
</tr>
<tr>
<td>GEY 4945</td>
<td>Field Placement (1-9) BC GEY</td>
<td>PR: CI. A reading program with topics in gerontology 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).</td>
</tr>
<tr>
<td>GEY 5476</td>
<td>Program Evaluation in an Aging Society (3) BC GEY</td>
<td>Students develop knowledge of the purposes of evaluation research and the approaches and methodologies necessary to evaluation aging services programs and organizations.</td>
</tr>
<tr>
<td>GEY 5501</td>
<td>Health Care Operations in Long Term Care (3) BC GEY</td>
<td>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.</td>
</tr>
<tr>
<td>GEY 5620</td>
<td>Sociological Aspects Of Aging (3) BC GEY</td>
<td>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.</td>
</tr>
<tr>
<td>GEY 5630</td>
<td>Economics and Aging (3) BC GEY</td>
<td>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.</td>
</tr>
<tr>
<td>GEY 5642</td>
<td>Perspectives on Death and Dying (3) BC GEY</td>
<td>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.</td>
</tr>
<tr>
<td>GIS 2010C</td>
<td>Map Interpretation (4) AS GPY</td>
<td>Analysis and synthesis of various types of maps and map projections.</td>
</tr>
<tr>
<td>GIS 3006</td>
<td>Computer Cartography (4) AS GPY</td>
<td>An introduction to the concepts underlying modern, computer-based mapping and to the collection and storage of digital spatial data.</td>
</tr>
<tr>
<td>GIS 4035C</td>
<td>Remote Sensing of the Environment (4) AS GPY</td>
<td>PR: GIS 3006 and GEO 3164C, or CI. Analysis of satellite images and aerial photographs for studies of the environment.</td>
</tr>
<tr>
<td>GIS 4043C</td>
<td>Geographic Information Systems (4) AS GPY</td>
<td>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.</td>
</tr>
<tr>
<td>GIS 4300</td>
<td>Environmental Modeling with GIS (4) AP GPY</td>
<td>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.</td>
</tr>
<tr>
<td>GIS 5049</td>
<td>GIS for Non-Majors (3) GEY</td>
<td>An introduction to the concepts underlying digital thematic mapping and geographical information systems (GIS) for non-geography majors and non-geography graduate students.</td>
</tr>
<tr>
<td>GIS 5075</td>
<td>Global Positioning Systems (3) AS GPY</td>
<td>PR: GIS 5049; GIS for Non-Majors or permission from the instructor. Examination of the theory, operation and application of Global Positioning Systems (GPS).</td>
</tr>
<tr>
<td>GLY 2000</td>
<td>Earth and Environmental Systems NS (3) AS GLY</td>
<td>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.</td>
</tr>
<tr>
<td>GLY 2000L</td>
<td>Essentials of Geology Laboratory (1) AS GLY</td>
<td>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.</td>
</tr>
<tr>
<td>GLY 2010</td>
<td>Dynamic Earth: Introduction to Physical Geology NS CANP (3) AS GLY</td>
<td>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.</td>
</tr>
<tr>
<td>GLY 2030</td>
<td>Hazards of the Earth’s Surface: Environmental Geology NS CANP (3) AS GLY</td>
<td>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.</td>
</tr>
<tr>
<td>GLY 2051</td>
<td>Origins: From the Big Bang to the Ice Age NS (3) AS GLY</td>
<td>The history of the cosmos, origin of the universe, galaxies, the solar system, and earth, evolution of life, great extinction’s including the dinosaurs, evolution of...</td>
</tr>
</tbody>
</table>
COURSE DESCRIPTIONS

UNIVERSITY OF SOUTH FLORIDA 2012-2013 UNDERGRADUATE CATALOG

the primates, and the environmental future of the planet. (For both non-science and science majors.)

GLY 2073 Global Climate Change: A Geoscience Perspective CANP (3) AS GLY
A geoscience perspective on global climate change science. Examination of the geophysics of climate, geologic history of climate change, physical factors that influence climate, and global climate modeling. Open to all students.

GLY 2100 History of Life NS CANP (3) AS GLY
This course has several objectives. It is an introduction not only to lecture and laboratory class in geology and evolutionary theory but, perhaps more importantly, to science as a way of understanding the world around you and finding answers to big question.

GLY 2100L Earth History Laboratory (1) AS GLY
Laboratory study of the history of the earth and life. Required for Geology majors; open to non-majors.

GLY 2160 Geology of the National Parks NS CANP (3) AS GLY
This course is delivered over the internet through blackboard and recitation meetings. It introduces the nature of geologic processes including plate tectonics, earthquakes, volcanism, and glaciation drawing on examples from our nation’s Parks.

GLY 2930 Selected Topics in Geology (1-3) AS GLY
Does not count toward the geology major. Topical courses in geology of general interest.

GLY 3311C The Solid Earth: Petrology and Geochemistry (4) AS GLY

GLY 3402C The Solid Earth: Plate Tectonics and Earth Structure (4) AS GLY
PR: 4 hrs. introductory geology including GLY 2000L; MAC 2312 or equivalent; PHY 2048. Plate tectonic theory and its implication re: the formation of structural features on outcrop and regional scales. Field and geophysical tools for structural analysis. Required field trip. Lec-Lab.

GLY 3552C Sedimentary Record 1: Sedimentary Processes and Petrology (4) AS GLY
PR: GLY 2000L, CHM 2045, MAC 2281. CR: GLY 3311C. A comprehensive introduction to the nature of sedimentary rock and the sedimentary rock record. Examination of the rock record to solve problems in sedimentary geology.

GLY 3720C The Fluid Earth (4) AS GLY
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.

GLY 3850 Geology For Engineers (3) AS GLY
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.

GLY 4045 Moons, Planets, and Meteors: An Introduction to Planetary Science MW (3) AS GLY
PR: Junior standing. Solar System exploration, from Aristotle to NASA. Modern viex, 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.

GLY 4053 Theories and Arguments about the Earth MW (3) AS GLY
PR: 2000 level geology course. History of thinking about the Earth: context - geologic controversies; emphasis - geologic reasoning.

GLY 4104C Sedimentary Record 3: Paleontology and Earth Evolution (4) AS GLY
PR: GLY 2000L, GLY 3552C, BSC 210. The study of "deep time"; 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.

GLY 4324C Physical Volcanology (4) AS GLY
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.

GLY 4462 Geomechanics (4) AS GLY
PR: GLY 2010 or equivalent, PHY 2048 and 2049 or equivalent. Co-PR: GYL 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.

GLY 4480 Seismology (4) AS GLY
Introductory geology for majors, calculus and calculus-based physics as required for geology majors. Comprehensive introduction to theoretical and observational seismology, use of seismic waves and earthquake patterns to study earth structure, seismic hazard and risk mitigation, earthquake prediction, and techniques for the analysis of seismic data.

GLY 4554C Sedimentary Record 2: The Earth's Surface (4) AS GLY
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.

GLY 4734 Beaches and Coastal Environments MW (3) AS GLY
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.

GLY 4780 Geological Field Studies (1-3) AS GLY
### COURSE DESCRIPTIONS

#### UNIVERSITY OF SOUTH FLORIDA 2012-2013 UNDERGRADUATE CATALOG

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>GLY 4822C</td>
<td>Fluid Earth 2: Hydrogeology (4) AS GLY</td>
<td>Focuses on 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>
<tr>
<td>GLY 4866</td>
<td>Computational Geology (3) AS GLY</td>
<td>Emphasizes the basic laboratory skills of a practicing field geologist. Topics vary widely, with several different offerings each semester. May be repeated for credit.</td>
</tr>
<tr>
<td>GLY 4905</td>
<td>Independent Study (1-3) AS GLY</td>
<td>Allows for specialized independent study determined by the student's needs and interests.</td>
</tr>
<tr>
<td>GLY 4920</td>
<td>Geology Colloquium (1) AS GLY</td>
<td>Weekly topical lectures by faculty, graduate students and invited speakers.</td>
</tr>
<tr>
<td>GLY 4921</td>
<td>Geocommunications (3) AS GLY</td>
<td>Focuses on the intersection of geology and communication.</td>
</tr>
<tr>
<td>GLY 4930</td>
<td>Selected Topics in Geology (1-4) AS GLY</td>
<td>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.</td>
</tr>
<tr>
<td>GLY 4946L</td>
<td>Practical and Applied Geology: Teaching Experience (1) AS GLY</td>
<td>Focuses on teaching geology.</td>
</tr>
<tr>
<td>GLY 4947L</td>
<td>Practical and Applied Geology: Laboratory Experience (1) AS GLY</td>
<td>Focuses on laboratory skills of a practicing field geologist. Topics vary widely, with several different offerings each semester. May be repeated for credit.</td>
</tr>
<tr>
<td>GLY 4948L</td>
<td>Practical and Applied Geology: Field Experience (1) AS GLY</td>
<td>Focuses on field skills of a practicing field geologist. Topics vary widely, with several different offerings each semester. May be repeated for credit.</td>
</tr>
<tr>
<td>GLY 4949L</td>
<td>Practical and Applied Geology: Computational Experience (1) AS GLY</td>
<td>Focuses on computational skills.</td>
</tr>
<tr>
<td>GLY 4951</td>
<td>Undergraduate Research (1-3) AS GLY</td>
<td>Focuses on research skills.</td>
</tr>
<tr>
<td>GLY 4990</td>
<td>Undergraduate Research (S/U) AS GLY</td>
<td>Focuses on research skills.</td>
</tr>
<tr>
<td>GRA 2103</td>
<td>Introduction to Computer Based Design (3) AP ART</td>
<td>Introduces computer-based design skills.</td>
</tr>
<tr>
<td>GRA 2206C</td>
<td>Typography (3) TA ART</td>
<td>Focuses on typography.</td>
</tr>
<tr>
<td>GRA 3104</td>
<td>Computer Graphics (3) TA ART</td>
<td>Focuses on computer graphics.</td>
</tr>
<tr>
<td>GRA 3110</td>
<td>Graphic Design I (3) TA ART</td>
<td>Focuses on graphic design.</td>
</tr>
<tr>
<td>GRA 3735</td>
<td>Multimedia Systems I (3) TA ART</td>
<td>Focuses on multimedia systems.</td>
</tr>
<tr>
<td>GRA 4930C</td>
<td>Graphic Design: Senior Studio (3) TA ART</td>
<td>Focuses on advanced graphic design.</td>
</tr>
</tbody>
</table>
communication systems will be discussed and assigned as projects. Focus is upon efficient and effective use of technology in the design production process.

**GRA 4940 Graphic Design: Internship (2) TA ART**

Competitive portfolio may be required. Restricted to majors. On-site supervised work experience in an educational, graphic studio, advertising agency, or corporate environment.

**GRA 4945 Graphic Design: Professional Practicum (3) TA ART**

Restricted to majors. Students fine-tune their portfolios, create self promotional print and digital projects and develop their practice. Includes field trips to studios, agencies, corporate graphic departments and marketing firms.

**GRA 4955C Senior Project: Portfolio (3) TA ART**

Restricted to majors. This course covers the organization and presentation of a design/advertising/graphic portfolio and appropriate related materials. Emphasis is upon portfolio development, professional production, and self promotion skills.

**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 (4) AS REL**


**GRE 2141 New Testament Greek II (4) 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**

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: HBR1120. 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 2201 Modern Hebrew IV (4) AS WLE**

PR: HBR 2200 or the equivalent. Continuation of HBR 2200. Practice of writing, speaking and listening skills for language students who intend to attain basic proficiency.

**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.

**HEB 1120 Basic Hebrew I (4) AS REL**

Designed to give students a working knowledge of Classical (Biblical) Hebrew and to introduce them to the Biblical literature in the original language.

**HEB 1121 Basic Hebrew II (4) AS REL**

Designed to give students a working knowledge of Classical (Biblical) Hebrew and to introduce them to the Biblical literature in the original language.

**HFT 3003 Introduction to Hospitality and Tourism (3) HM HRM**

An overview of the hospitality industry, including all of its related fields: restaurant; lodging; meetings,
conventions and expositions. Also featured are the applications of the general marketing, human resources, leadership, and management.

**HFT 3263 Restaurant and Catering Management (3) HM HRM**
PR: HFT 3424, FSS 3231 Management of food and beverages as they relate to planning, production, supervision and cost control in restaurants and catering food services, with emphasis on techniques of food preparation, menu merchandising, food safety, bar services and wine list.

**HFT 3423 Hospitality Information Systems (3) HM HRM**
PR: ISM 3011, HFT 3003. The study of management information systems in the hospitality management industry. The students will evaluate software and hardware computer systems and application software being used in the hospitality industry and develop selection strategies.

**HFT 3424 Cost Control in Hospitality Operations (3) HM HRM**
PR: HFT 3003, FIN 3403, MAN 3025 Provides students with a thorough understanding of hospitality financial accounting concepts. The emphasis of the course is to use accounting information in making managerial decisions and to prepare and understand hospitality financial statements.

**HFT 3503 Hospitality Marketing and Sales (3) HM HRM**
PR: MAR 3023 Principles of marketing and sales and practical application in hospitality marketing philosophies; the marketing mix; product differentiation; corporate travel market; and the association, convention, and trade show market.

**HFT 3603 Law and Security for the Hospitality Industry (3) HM HRM**
PR: HFT 3003 Functions of the law, legal environment and legal reasoning. An overview of the security issues in the hospitality industry. The law pertaining to contracts, workmen’s comp and the impact of law on economic enterprise in the hospitality industry.

**HFT 3700 Tourism Management (3) HM HRM**
Introductory course to the world of travel and tourism. Topics covered are cultural tourism, eco-tourism, sociology of tourism, tourism components and supply, tourism development, the economic role of tourism demand, and the marketing of tourism.

**HFT 3861 Beverage Management (3) HM HRM**
An introduction to the identification, use and service of wines, spirits, and other alcoholic beverages. An in-depth analysis of beverage operations to include selection/storage, inventory, purchasing, sales/promotion/merchandising, profits and bar management.

**HFT 4221 Human Resources Management (3) HM HRM**
PR: HFT 3003, MAR 3023 Designed to educate new managers and supervisors in the complex issues involved in a comprehensive human resource program and its importance to hotel and restaurant business. Workmen’s Compensation, ADA, training, unions, EEO and discrimination issues.

**HFT 4253 Lodging Management (3) HM HRM**
PR: HFT 3003, MAN 3023 Principles, practices, and procedures of managerial functions as they relate to the operation of hotels. Training, conflict resolution, total quality management, crisis management, employee empowerment and service standards are focus of team building.

**HFT 4323 Facilities Management in Hospitality Operations (3) HM HRM**
PR: HFT 3003 Engineering aspects of hospitality establishments, preventive maintenance procedures, energy conservation, waste management, pollution control, life safety systems, and facilities design and layout, air conditioning lighting, sound control.

**HFT 4471 Management Accounting and Finance in Hospitality (3) HM HRM**
PR: FIN 3403, HFT 3003, HFT 3424 Financial functions in hospitality, interpret hospitality financial statements, capital investment decision making, financial instruments and concepts. Analytical modeling for hospitality operations, including ratio analysis and capital budgeting.

**HFT 4853 Restaurant Trends and Challenges Seminar (3) HM HRM**
PR: Senior standing. Advanced level course focusing on contemporary management issues and challenges facing the foodservice and hospitality industries. Topic covered will be applicable to current trends applicable to a variety of situations.

**HFT 4930 Special Topics in Hospitality (1-3) HM HRM**
PR: HFT 3003 Topics to be selected by instructor and department chairperson for pertinent Hospitality Management issues.

**HFT 4936 Hotel Management Seminar (3) HM HRM**
PR: Senior standing. Advanced level course focusing on current problems and trends in hotel management and the hospitality industry.

**HFT 4945 Advanced Internship (3) HM HRM**
PR: HFT 3003 Coordinated hospitality training combines practical experience with didactic academic analysis. Principles, theory and standard practices applied to operational situations. S/U only.

**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 (4) 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
COURSE DESCRIPTIONS

UNIVERSITY OF SOUTH FLORIDA 2012-2013 UNDERGRADUATE CATALOG

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.

HSA 3170 Health Care 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 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)
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. Majors and non-majors. May be repeated for up to 6 credits.

HSC 3002 Introduction to Health Professions (3) AP BIO
An introduction to the various allied health professions. The current concept of comprehensive care of the ill and disabled. An orientation to the roles of the various health professions.

HSC 3301 Health, Safety, Nutrition and Motor Skills for the Young Child (3) ED EDP
Provide students with the knowledge to teach developmentally appropriate motor activities; to provide continuous health services; create and maintain a healthy learning environment; and sequence appropriate health instruction for Pre-K through 3rd grade students.

HSC 3541 Human Structure and Function NS (3) PH CFH
This course is designed to introduce the structural levels of the body beginning with chemicals and progressing through cells, tissues, organs and systems with emphasis on homeostasis, stress and feedback systems. Not restricted to majors.

HSC 4134 Prevention of Mental Illness (3) PH PHC
This course explores the contributions of prevention science and public health in impeding the development of mental disorders and the events that lead to mental disorders with the major developmental focus on childhood.

HSC 4172 Women's Health: A Public Health Perspective (3) PH PHC
From a public health perspective, this course will explore the multidimensional and multidisciplinary dimensions of women's health. The course will emphasize health promotion, disease prevention, and overall well-being.

HSC 4211 Health, Behavior and Society (3) PH PHC
This course focuses on an ecological perspective of the determinants of health including biology, individual behavior, social relationships, social stratification, institutions, neighborhoods and communities, environment, policies and globalization.

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.

HSC 4504 Foundations of Public Health Immunology NS (3) PH PHC
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.

HSC 4537 Medical Terminology (3) PH PHC
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.

HSC 4551 Survey of Human Diseases (3) PH PHC
PR: Fund. of Biology with Lab or CI. An overview of the nature, types, and mechanisms of diseases of the major body systems.

HSC 4579 Foundations of Maternal and Child Health (3)
PH PHC
### COURSE DESCRIPTIONS

**UNIVERSITY OF SOUTH FLORIDA 2012-2013 UNDERGRADUATE CATALOG**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>HSC 4580</td>
<td>Foundations of Food Safety (3) PH PHC</td>
<td>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.</td>
</tr>
<tr>
<td>HSC 4624</td>
<td>Foundations of Global Health (3) PH PHC</td>
<td>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.</td>
</tr>
<tr>
<td>HSC 4630</td>
<td>Understanding U.S. Health Care (3) PH PHC</td>
<td>An introduction to health services; providing an overview of important components of the U.S. health care system, health policy, financing sources, and comparisons with other developed nations.</td>
</tr>
<tr>
<td>HSC 4631</td>
<td>Critical Issues in Public Health 6A CPST (3) PH PHC</td>
<td>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 &amp; behavioral factors related to health, and environmental issues.</td>
</tr>
<tr>
<td>HSC 4933</td>
<td>Special Topics in Public Health (1-6) PH PHC</td>
<td>PR: CI. Content will be governed by student demand and instructor interest.</td>
</tr>
<tr>
<td>HSC 5036</td>
<td>Professional Foundations of Health Education (1) PH CFH</td>
<td>The study of the practice of health education in various settings, and selected historical, cultural, philosophical, professional, and ethical issues in the practice of education.</td>
</tr>
<tr>
<td>HUM 1020</td>
<td>The Arts FA CAFA (3) AS HCS</td>
<td>Analysis 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.</td>
</tr>
<tr>
<td>HUM 2210</td>
<td>Studies in Culture: The Classical Through Medieval Periods HP CAHU HHCP (3) AS HCS</td>
<td>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.</td>
</tr>
<tr>
<td>HUM 2230</td>
<td>European Humanities: Renaissance - 20th Century HP CAHU HHCP (3) AS HCS</td>
<td>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.</td>
</tr>
<tr>
<td>HUM 2250</td>
<td>Studies in Culture: The Twentieth Century HP CAHU (3) AS HCS</td>
<td>Analyses of selected works of twentieth century art, including films, paintings, music, and literature, in the context of major political, social, and economic events, such as war, depression, totalitarianism, and technological change.</td>
</tr>
<tr>
<td>HUM 2271</td>
<td>Eastern and Western Culture from Antiquity to 1400 AF (3) AS HCS</td>
<td>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.</td>
</tr>
<tr>
<td>HUM 2273</td>
<td>Eastern and Western Culture Since 1400 AF (3) AS HCS</td>
<td>A comparative treatment of music, visual arts, theatre, literature, and philosophy in the East and West, proceeding chronologically from the Renaissance through the present, emphasizing Europe, the United States, and India.</td>
</tr>
<tr>
<td>HUM 2466</td>
<td>Latin American Civilization II: Modern Latin America CAGC (3) AS HCS</td>
<td>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.</td>
</tr>
<tr>
<td>HUM 2522</td>
<td>Introduction to the Cultural Study of Popular Music CAHU (3) AS HCS</td>
<td>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.</td>
</tr>
<tr>
<td>HUM 2930</td>
<td>Selected Topics (1-4) AS HCS</td>
<td>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).</td>
</tr>
<tr>
<td>HUM 3231</td>
<td>The Renaissance (3) AS HCS</td>
<td>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.</td>
</tr>
<tr>
<td>HUM 3237</td>
<td>The Seventeenth Century (3) AS HCS</td>
<td>Junior/Senior Level Standing. 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.</td>
</tr>
<tr>
<td>HUM 3240</td>
<td>The Early Middle Ages: Early Christian Cultures (3) AS HCS</td>
<td>Junior/Senior Level Standing. 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.</td>
</tr>
<tr>
<td>HUM 3241</td>
<td>Central Medieval and Gothic Europe (3) AS HCS</td>
<td>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.</td>
</tr>
<tr>
<td>HUM 3242</td>
<td>The Enlightenment (3) AS HCS</td>
<td>Junior/Senior Level Standing. By studying late seventeenth and eighteenth century literature, music, visual art, and philosophy, this course examines the phenomena such as rationalism, classification systems, the influence of science, utilitarianism, reform, and secularism.</td>
</tr>
<tr>
<td>HUM 3244</td>
<td>Nineteenth Century European Culture (3) AS HCS</td>
<td>By studying 19th century literature, music, and visual art, this course examines phenomena such as the rise of capitalism, colonial expansion, nationalism,</td>
</tr>
</tbody>
</table>
COURSE DESCRIPTIONS

UNIVERSITY OF SOUTH FLORIDA 2012-2013 UNDERGRADUATE CATALOG

urbanism, and the redefinition of public and political life during this period of extreme change.

HUM 3407 Ancient Near East Cultures (3) AS HCS
Material and intellectual culture of ancient Mesopotamia (Iraq) & Persia (Iran) from the fourth millennium BCE until the coming of Islam. Topics include the Sumerian and the Assyrian in Mesopotamia; and the Achaemenid, Parthian, and Sassanian in Persia.

HUM 3457 Nineteenth Century American Arts and Letters (3) AS HCS
Junior/Senior Level Standing. This course explores American art, literature, and cultural life from the early republic through the Gilded Age. Works are studied in their historical context in order to understand how they transmitted important information about American identity.

HUM 3458 Twentieth-Century American Culture (3) AS HCS
Junior/Senior Level Standing. A historical survey of American culture since 1900. Literature, music, visual art, film, and intellectual movements are studied in order to understand how they have reflected and shaped cultural values and responded to changing conditions of American society.

HUM 3463 Latin American Civilization I: Pre-Columbian & Colonial (3) AS HCS
PR: HUM 2210 or HUM 2230. 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.

HUM 3804 Introduction to Cultural Studies (3) AS HCS
PR: HUM 2230 or AMS 2030 or FIL 1002. 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.

HUM 3930 Selected Topics in Humanities (1-4) AS HCS
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.

HUM 4261 Cultural Periods and Styles (3) AS HCS
Focuses on the 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.

HUM 4331 Humanities Pro-Seminar (3) AS HCS
PR: Must have completed HUM 3804 with a GPA of 2.5 or better (grade of B- or better). 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.

HUM 4391 Places, Spaces, and Regions (3) AS HCS
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.

HUM 4433 Ancient Greek Culture (4) AS HCS
PR: Junior standing and HUM 2210 or HUM 2230, or CI. A study of the poetry, drama, philosophy, historical writing, painting, sculpture and architecture of ancient Greece, including such authors as Homer, Sophocles, and Plato, and monuments such as the Parthenon.

HUM 4445 Twentieth Century Arts and Letters I (4) AS HCS
Junior/Senior Level Standing. Analysis of selected works of twentieth century art. The course will focus on a particular phase in the development of modernism, a set of themes, or certain stylistic aspects of various arts of the twentieth century.

HUM 4452 Nineteenth Century American Culture (4) 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 (4) 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 (4) 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
COURSE DESCRIPTIONS

UNIVERSITY OF SOUTH FLORIDA 2012-2013 UNDERGRADUATE CATALOG

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.

HUM 2201 Nutrition (3) NU NUR
PR: Course work in chemistry and biology or permission of faculty. Open to majors and non-majors. The study of fundamental principles of normal 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) HT HUN
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) HT HUN
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) HT HUN
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 3403 Nutrition through the Life Cycle (3) HT HUN
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) HT HUN
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) US DEA
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 CAMP (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 (4) 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
COURSE DESCRIPTIONS

UNIVERSITY OF SOUTH FLORIDA 2012-2013 UNDERGRADUATE CATALOG

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 supervised 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.

IDH 5956 Honors Graduate Project (3) HC HON
PR: Senior Status and permission of Honors College. Advanced Honors Project. Repeatable up to 12 hours.

IDH 5975 Honors Thesis (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 FMH
Overview of research problems in behavioral & community sciences, research ethics, and the responsible conduct of research. Restricted to students with a major or minor in College of Behavioral & Community Sciences.

IDS 2664 Social Science Perspectives I SS (3) AS IAS
Provides an overview of the evolution and global expansion of human 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) TA 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, race, gender, 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 (1-6) US DEA
Learning objectives determined by faculty and aligned with experiences 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.

IDS 4934 Applied Science Capstone 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+, has completed one Cooper 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) TA 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) TA 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 AF (3) AS INT
An interdisciplinary study of the international system, major world regions and problems.

INR 2002 Introduction to International Relations (3) AS POL
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 INT
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 INT
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 INT
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 INT
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 INT
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 AF (3) AS INT
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 POL
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 INT
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 INT
This course explores the evolution of international 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 INT
An examination of the role of intelligence and the intelligence community in U.S. foreign policy, with emphasis on the post-World War II.

INR 3955 Overseas Study (1-6) AS INT
A program of individual or group research in a foreign country.

INR 4035 International Political Economy (3) AS POL
Analysis of the development and politics of the international economic system, focusing on questions of cooperation and conflict in trade, aid, and investment relationships.

INR 4083 Conflict In The World MW (3) AS INT
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 outbreak of conflict.

INR 4254 Africa in World Affairs MW (3) AS INT
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.

INR 4403 International Law SS (3) AS POL
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.
COURSE DESCRIPTIONS

UNIVERSITY OF SOUTH FLORIDA 2012-2013 UNDERGRADUATE CATALOG

INR 4502 International Organizations SS AF (3) AS POL
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.
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.

INR 4900 Directed Readings (1-3) AS INT
PR: CI. A supervised program of intensive reading of interdisciplinary materials in areas of specific interest.

INT 4910 Directed Research (1-3) AS INT
PR: CI. A supervised program of interdisciplinary research in areas of specific interest.

INR 4931 Selected Topics (1-4) AS INT
Interdisciplinary studies with course content dependent on student demand and instructor's interest.

INR 4936 Senior Seminar MW (3) AS INT
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.

INR 4943 Internship in International Studies (3-6) AS INT
PR: Senior status. S/U only. The purpose of the course is to promote the student's understanding of global international issues within a local and practical context.

INT 5012 Globalization (3) AS INT
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.

INT 5086 Issues in International Relations (3) AS POL
Sr./GS. Explores specific topics and provides the student with an opportunity for in-depth study of historical and contemporary problems in international politics.

INT 3004 Fundamentals of Interpreting (4) BC CSD
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.

INT 3110 Language and Cognitive Processing Skills in English (4) BC CSD
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.

INT 3111 Language and Cognitive Skills in ASL (4) BC CSD
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.

INT 3112 Translation from English and from ASL (4) BC CSD
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.

INT 3205 Interpreting I (4) BC CSD

INT 3270 Interpreting Process and Skill Development (4) BC CSD
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.

INT 3403 Issues in Educational Interpreting (3) BC CSD
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.

INT 4180 Senior Seminar in Interpreter Training (3) BC CSD
PR: INT 4250. Students expand upon previously learned topics and discuss factors that will affect their profession. Topics include: professional organization, certification, ethics and discuss best practices and will produce a professional portfolio. For majors only.

INT 4206 Interpreting II (4) BC CSD
PR: INT 3205. This course provides advanced, in-depth discussion and application of techniques and principles as well as expanded concentration on intermediate expressive and receptive manual communication skills.

INT 4208 Interpreting Ill (4) BC CSD
PR: INT 4206. This course develops advanced competency in interpretation in complex settings. Hands-on practice using advanced interpreting skills, techniques and in-depth exploration of advanced ASL features such as non-manual markers, classifiers, and fingerspelling.

INT 4211 Transliterating (4) BC CSD
PR: INT 4206. Introduction to the transliteration process and development of expressive transliterating skills through presentation and class participation. Topics include types of consumers who use transliterating and issues that influence the transliteration process.

INT 4235 Advanced Receptive Voicing (3) BC CSD
PR: INT 4206. Advanced level students will strengthen interpreting skills from a signed message to a voiced English translation. Strategies and techniques include working from ASL to English interpretation, with a focus on fingerspelling and numbering.

INT 4250 Simultaneous Interpretation Monologic (4) BC CSD
PR: INT 3004, INT 3112. Students simultaneously interpret monologic talk from ASL and from English with target language beginning before the conclusion of the source utterance and continuing as the student listens to the continuing source utterance. For majors only.

INT 4251 Simultaneous Interpretation Dialogic (4) BC CSD
PR: INT 4250. Students interpret dialogues from ASL to English and from English to ASL with the target language production beginning before the conclusion of the source utterance and continuing as the student listens to the continuing source utterance. For majors only.

INT 4260 ASL to English Consecutive Interpretation (2) BC CSD
COURSE DESCRIPTIONS

UNIVERSITY OF SOUTH FLORIDA 2012-2013 UNDERGRADUATE CATALOG

PR: INT 3004, INT 3112; CR: INT 4261. Students consecutively interpret conversational discourse of planned and unplanned conversational language samples from ASL to English with delays of a few seconds after the source utterance is finished. For majors only.

INT 4261 English to ASL Consecutive Interpretation (2) BC CSD
PR: INT 3004, INT 3112; CR: INT 4260. Students consecutively interpret conversational discourse from English to ASL with delays from conversational language samples of various lengths ranging from single utterances to discourse units of several minutes duration. For majors only.

INT 4456 Interpreting: Specialized Settings and Populations (3) BC CSD
Examines settings in which interpreters work (social service and rehabilitation, employment, religious, performing arts, legal, etc.) and the challenges of specific deaf and hard-of-hearing consumers and those with minimal language skills (MLS).

INT 4460 Video Interpreting (3) BC CSD
Video Remote Interpreting (VRI) and Video Relay Service (VRS) are new settings for sign language interpreters. This course will explore differences between VRI and VRS, ethical considerations related to video interpreting, and required specialized skills.

INT 4490 Introduction to Cued Speech and its Applications (3) BC CSD
This course covers the fundamentals of the Cued Speech system, including an overview of how it is typically used with children who are deaf. Common applications of cueing and other communication options and relevant research are discussed.

INT 4944 Practicum: Interpreting in the Schools (1-8) BC CSD
This course provides practice sessions in school settings under supervision of an experienced interpreter and course instructor. Each practicum student will shadow an interpreter, and participate in discussion about the overall performance.

ISC 1004 Integrated Natural Sciences I: Science that Matters NS (3) AS IDS
Discussion of integrative concepts in biology, chemistry, geology, and physics based on major knowledge strands of the Florida and Natural Science Education Standards. This course deals with current topics relevant to students, is inquiry based, and emphasizes development of higher order (critical thinking) skills through active learning strategies.

ISC 1005 Integrated Natural Sciences II: Science that Matters NS (3) AS IDS
Discussion of integrative concepts in biology, chemistry, geology, and physics based on major knowledge strands of the Florida and Natural Science Education Standards. This course deals with current topics relevant to students, is inquiry based, and emphasizes development of higher order (critical thinking) skills through active learning strategies.

ISM 3011 Information Systems in Organizations (3) BU QMB
PR: CGS 2100 or equivalent. An introduction to the language, concepts, structures and processes 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) BU 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 3232 Business Application Development (3) BU 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) BU 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) BU 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) BU 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) BU 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) BU 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) BU 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) BU 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)**
BU 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 system designs based on these objects.

**ISM 4300 Managing Information Resources (3)**
BU QMB
PR: ISM 4212 and ISM 4220, with grades of "C" or better (not C-). 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 system designs based on these objects.

**ISM 4300 Information Security and IT Risk Management (3)**
BU 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)**
BU 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)**
BU 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 optimization techniques.

**ISM 4480 Electronic Commerce Systems (3)**
BU 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 technologies used in implementing e-commerce systems, and to develop the skills needed to manage effective Web sites.

**ISM 4905 Independent Study (1-6)**
BU QMB
S/U only. Independent study as directed by designated faculty.

**ISM 4930 Selected Topics in MIS (1-3)**
BU QMB
Selected topics in MIS.

**ISM 4950 Independent Research (1-6)**
BU QMB
PR: CI. Individual study contract with instructor and department chairperson required. The research project will be mutually determined by the student and instructor.

**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 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 3900 Research Methods in Social Sciences (3)**
AM ISS
PR: ISS 3013, 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 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)**
AS ISS
PR: ISS 3300, STA 2122, senior standing. This course facilitates the completion of an interdisciplinary capstone project that showcases the skills students have acquired throughout their course of study in the major. A selected topic is used to illustrate the interdisciplinary research process.

**ISS 4940 Internship in Interdisciplinary Social Sciences (1-4)**
AP 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.

**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 2240 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 ITAI, 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 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 3101 Advanced Reporting (3) AS COM
PR: JOU 2100 or RTV 3301 (RTV majors only), JOU 4201 (may be taken concurrently with JOU 4206). Reporting and writing the more complex and specialized story. Techniques of investigative and analytical reporting, including ethical and legal considerations.

JOU 3306 Critical Writing: Editorials, Reviews, Columns (3) AS COM
PR: JOU 3101 and JOU 4201. Interpretive and opinion writing for the mass media. Analysis and discussion of current events as a basis for critical thinking and editorial writing. Evaluation of editorial pages of leading newspapers. Study of journalistic techniques involved in writing reviews and personal columns.

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 2901 and POS 2912 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, and 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
**COURSE DESCRIPTIONS**

**UNIVERSITY OF SOUTH FLORIDA 2012-2013 UNDERGRADUATE CATALOG**

<table>
<thead>
<tr>
<th>Course Code</th>
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<tbody>
<tr>
<td>JOU 4212</td>
<td>Magazine Design and Production (3) AS COM</td>
<td>3</td>
<td>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.</td>
</tr>
<tr>
<td>JPN 1121L</td>
<td>Modern Japanese II Laboratory (1) AS WLE</td>
<td>1</td>
<td>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.</td>
</tr>
<tr>
<td>JPN 2220</td>
<td>Modern Japanese III (4) AS WLE</td>
<td>4</td>
<td>PR: JPN 1121 or equivalent. Continuing study to attain basic proficiency in Japanese.</td>
</tr>
<tr>
<td>JPN 4905</td>
<td>Directed Study (1-5) AS WLE</td>
<td>1-5</td>
<td>Departmental approval required. S/U only. Permits study options in Japanese not available in regularly scheduled curriculum at departmental discretion.</td>
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**DEPARTMENT OF MASS COMMUNICATIONS**

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</thead>
<tbody>
<tr>
<td>LAE 4343</td>
<td>Traditional English Grammar for Teachers (3) ED EDU</td>
<td>3</td>
<td>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.</td>
</tr>
<tr>
<td>LAE 4335</td>
<td>Methods of Teaching English: High School (3) ED EDI</td>
<td>3</td>
<td>PR: LAE 4464. Must be taken one or two semesters prior to internship. Recommended to be taken with LAE 4530. Whole language methods of integrating reading, writing, speaking, listening, viewing, and critical thinking activities into a literature-based program for high school students.</td>
</tr>
<tr>
<td>LAE 4343</td>
<td>Writing across the Curriculum (2) EP EDU</td>
<td>2</td>
<td>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.</td>
</tr>
<tr>
<td>LAE 4414</td>
<td>Teaching Literature in the Elementary School, Grades K-6 6A LW WRIN (3) ED EDU</td>
<td>3</td>
<td>This course involves the selection, evaluation, and use of fiction, nonfiction, and poetry for instructional, informational, and recreational purposes in childhood education.</td>
</tr>
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**DEPARTMENT OF JAPANESE**

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</tr>
</thead>
<tbody>
<tr>
<td>JPN 1120L</td>
<td>Modern Japanese I Laboratory (1) AS WLE</td>
<td>1</td>
<td>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.</td>
</tr>
<tr>
<td>JPN 1121</td>
<td>Modern Japanese II (4) AS WLE</td>
<td>4</td>
<td>PR: JPN 1120 or equivalent. CR: JPN 1121L. A continuation of JPN 1120. More sophisticated oral/aural skills are attained. Basic reading skills are acquired.</td>
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**DEPARTMENT OF TEACHER EDUCATION**

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<tbody>
<tr>
<td>LAE 4314</td>
<td>Teaching Writing in the Elementary School, Grades K-6 (2) ED EDU</td>
<td>2</td>
<td>PR: Elementary Education majors or CI. 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.</td>
</tr>
<tr>
<td>LAE 4323</td>
<td>Methods of Teaching English: Middle School (3) ED EDI</td>
<td>3</td>
<td>Must be taken one or two semesters prior to internship. Recommended to be taken with LAE 4464. Whole language methods of integrating reading, writing, speaking, listening, viewing, and critical thinking activities into a literature-based program for middle school students.</td>
</tr>
</tbody>
</table>

**DEPARTMENT OF JUNIOR HIGH/SECURITY STUDIES**

<table>
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</tr>
</thead>
<tbody>
<tr>
<td>LAE 4320</td>
<td>Teaching Literature (2) ED EDI</td>
<td>2</td>
<td>Prepares pre-service teachers by developing an understanding of the foundations of writing through the use of Writer's workshops and instructional strategies necessary to provide adequate instruction to emergent, novice, and transitional writers.</td>
</tr>
</tbody>
</table>
| LAE 4464    | Adolescent Literature for Middle and Secondary Students 6A LW (3) ED EDI | 3        | PR: English Education majors or CI. Recommended to be taken with LAE 4323 two semesters prior to internship. 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
PR: Senior standing or enrollment in Plan II Master's Program. One full semester of internship in a public or private school, including internship in elementary and/or secondary school. Taken one semester, spring or fall, prior to internship.

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. Taken in senior year. 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 with either English degree or 30 hrs of graduate credit in English or related field within the last 6 years. Open to non-majors.

LAE 5862 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 AF 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 AF (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 (4) AS HTY
A study of the Spanish and Portuguese Colonial empires in the New World from 1492-1830.

LAH 3200 Modern Latin America (4) 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 (4) 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 (4) 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 (4) 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 INT
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 AF (3) AS INT
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 INT
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 INT
PR: CAGC HHCP (3) AS AFA
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 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 movements of social change. Grand feats to small initiatives and even failed attempts will be analyzed in order to consider the common practices of those who seek to improve society.

LDR 3263 Community Leadership Practicum (3) US LDR
PR: LDR 2010 or LDR 4104, 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.

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 using 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 Student 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 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 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 (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 4104, 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 AF 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 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 3670 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 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
COURSE DESCRIPTIONS

UNIVERSITY OF SOUTH FLORIDA 2012-2013 UNDERGRADUATE CATALOG

Analysis of the phonological, morphological, 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 with an emphasis on the c

LIS 3361 World Wide Web Page Design and Management (3) AS LIS

LIS 3763 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 4104 Information Ethics (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 3361. 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 4930 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.

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 HP 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
### COURSE DESCRIPTIONS

**UNIVERSITY OF SOUTH FLORIDA 2012-2013 UNDERGRADUATE CATALOG**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>LIT 2040</td>
<td>Introduction to Drama 6A HP CAHU (3) AS ENG</td>
<td>This course will introduce students to the literary form of drama as well as to the various &quot;schools&quot; of literary criticism. Will not count toward the English major.</td>
</tr>
<tr>
<td>LIT 3022</td>
<td>Modern Short Prose HP (3) AS ENG</td>
<td>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.</td>
</tr>
<tr>
<td>LIT 3031</td>
<td>Survey of Poetry (3) AS ENG</td>
<td>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.</td>
</tr>
<tr>
<td>LIT 3043</td>
<td>Modern Drama (3) AS ENG</td>
<td>A study of such modern and contemporary dramatists as Ibsen, Strindberg, Chekhov, Pirandello, Shaw, O'Neill, Pinter, Stoppard, Brecht, Beckett, and Ionesco.</td>
</tr>
<tr>
<td>LIT 3093</td>
<td>Contemporary Literature (3) AS ENG</td>
<td>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.</td>
</tr>
<tr>
<td>LIT 3101</td>
<td>Literature of the Western World Through the Renaissance (3) AS ENG</td>
<td>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, Petrarach, Machiavelli, and Rabelais, among others.</td>
</tr>
<tr>
<td>LIT 3102</td>
<td>Literature of the Western World Since the Renaissance (3) AS ENG</td>
<td>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.</td>
</tr>
<tr>
<td>LIT 3103</td>
<td>Great Literature of the World 6A MW LW WRIN (3) AS ENG</td>
<td>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.</td>
</tr>
<tr>
<td>LIT 3144</td>
<td>Modern European Novel 6A HP (3) AS ENG</td>
<td>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.</td>
</tr>
<tr>
<td>LIT 3155</td>
<td>Twentieth-Century Literature 6A HP MW LW WRIN (3) AS ENG</td>
<td>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.</td>
</tr>
<tr>
<td>LIT 3301</td>
<td>Cultural Studies and the Popular Arts 6A MW LW WRIN (3) AS ENG</td>
<td>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.</td>
</tr>
<tr>
<td>LIT 3353</td>
<td>Literature, Race, and Ethnicity (3) AP ENG</td>
<td>PR: ENC 1102 with a grade of C- or better. Course examines the intersections of race, ethnicity &amp; literature. Focusing on one or multiple groups, provides a conceptual grounding in how written identities are formed from within marginalized communities &amp; how groups use writing to define themselves.</td>
</tr>
<tr>
<td>LIT 3374</td>
<td>The Bible As Literature 6A MW WRIN (3) AS ENG</td>
<td>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. Focuses on values/ethics, race, ethnicity and gender; thinking and writing skills. May be taken twice for credit with different subject matter. May count once toward the major.</td>
</tr>
<tr>
<td>LIT 3383</td>
<td>The Image of Women in Literature 6A MW LW WRIN (3) AS 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>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>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 3513</td>
<td>Literature, Gender, and Sexuality (3) AP ENG</td>
<td>PR: ENC 1102 with a grade of C- or better. Surveys literature from the perspective of gender &amp; sexuality; studying a variety of genres/forms, familiar &amp; lesser-known figures; analyze texts aesthetically &amp; rhetorically within various historical, cultural, &amp; theoretical contexts.</td>
</tr>
<tr>
<td>LIT 3930</td>
<td>Special Topics in English Studies (3) AS 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 4386</td>
<td>British and American Literature by Women 6A (3) AS 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 4804</td>
<td>Literature as Cultural Study MW (3) AS ENG</td>
<td>The study of literary texts as cultural artifacts. Literary texts as historical, social, political, psychological, philosophical, religious, etc. documents. Topics and works vary. Will not count toward the English major.</td>
</tr>
<tr>
<td>LIT 4930</td>
<td>Selected Topics in English Studies (1-4) AS 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</td>
</tr>
</tbody>
</table>
offered under this title. May be taken twice for credit with different topics

LIT 4931 Studies in World Literature and Culture (3) AP
ENG
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.

LIT 4951 Seneca and Roman Philosophy (4) AS WLE
PR: Basic knowledge of Latin. Readings in the philosophical writings of Lucius Annaeus Seneca, together with an examination of Stoic, Epicurean, and Eclectic thought.

LIT 4644 Cicero (4) AS WLE
PR: Basic knowledge of Latin. Readings in the epistles of Cicero.

LIT 4654 Horace (4) AS WLE
PR: Basic knowledge of Latin. Readings in the Odes and Epodes of Horace: study of the Ode’s tradition.

LIT 4900 Directed Reading (1-4) AS WLE
Departmental approval required.

LIT 4930 Selected Topics (4) AS WLE
Study of an author, movement, or theme.

LIT 5900 Directed Reading (1-4) AS WLE
Departmental approval required. S/U.

MAA 4211 Intermediate Analysis I 6A (4) AS MTH
PR: MAC 2313 and MAS 3105. Sequences, series, metric spaces, continuity, differentiation.

MAA 4212 Intermediate Analysis II 6A (3) AS MTH
PR: MAA 4211. Riemann-Stieltjes integration, uniform convergence, and related topics.

MAA 4402 Complex Variables 6A (3) AS MTH
PR: MAP 2302 or Cl. 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.

MAA 5306 Real Analysis I (3) AS MTH
PR: MAA 4211. Riemann-Stieltjes integrals, uniform convergence, Fourier series, Lebesgue measure and integration on R.

MAA 5307 Real Analysis II (3) AS MTH

MAA 5405 Applied Complex Analysis (3) AS MTH
PR: Cl. Complex numbers, analytic and harmonic functions. Series. Contour integrals, residue theory. Conformal mappings. (A survey course emphasizing techniques and applications.)

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 1147. 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 1114.

MAC 2233 Business Calculus 6A QM CAMA (4) 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 (4) 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 for mathematics majors. 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 integrations, log, exponential, series, applications.

MAC 2283 Engineering Calculus III 6A (4) AS MTH
COURSE DESCRIPTIONS

UNIVERSITY OF SOUTH FLORIDA 2012-2013 UNDERGRADUATE CATALOG

MAE 4320 Teaching Mathematics in the Middle Grades (3) ED EDO
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 EDO
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 EDO
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 EDO
PR: Admission to Mathematics Education Program or CI. This course provides prospective teachers an opportunity to develop concepts, skills, and 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 EDO
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 EDO
PR: Senior Standing and CI. To extend competency in teaching field.

MAE 4936 Senior Seminar in Mathematics Education CPST (3) ED EDO

MAE 4940 Internship: Mathematics Education (1-12) ED EDO
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 4945 Practicum in Mathematics Education (3) ED EDO
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) BU 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
This class is designed to present the student for a 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 3240 Organizational Behavior Analysis (3) BU 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) BU MAN
To develop a broad exposure to new approaches, techniques, and future trends in the management of personnel. A study of the major functions in personnel including job analysis, manpower planning, selection, performance evaluation, training, and wage and salary administration.

MAN 3401 Industrial Relations (3) BU MAN
Conceptualization of the administrative problems arising from unionization. Emphasis on the relationship between management and employee representatives in private and public employment.

MAN 4063 Management Ethics (3) BU 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) BU MAN
This course involves the transference of management theories into practice. It requires the active involvement of students in developing and practicing the skills needed to be a successful manager.

MAN 4280 Organizational Development and Change (3) BU MAN
PR: MAN 3240 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) BU MAN
PR: MAN 3240. 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) BU 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.

MAN 4430 Seminar in Negotiations and Administration of Labor Agreements (3) BU MAN
Case studies in contract negotiation, administration, grievance settlement, and arbitration. Assumes familiarity with industrial relations system.

MAN 4441 Negotiation and Conflict Resolution (3) BU 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) BU OMB
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) BU 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) BU 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) BU 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) BU 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 options for succession or termination.

MAN 4804 Small Business Management Counseling (3) BU 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) BU MAN
PR: CI. S/U only. Specialized independent study determined by the students needs and interests.

MAN 4930 Selected Topics in Management (1-3) BU MAN
### COURSE DESCRIPTIONS

#### UNIVERSITY OF SOUTH FLORIDA 2012-2013 UNDERGRADUATE CATALOG

**Topics to be selected by instructor and department chairperson for pertinent Management issues.**

**MAN 4931 Independent Research (1-4) BU MAN**  
PR: CI. Individual study contract with instructor and department chairperson required. The research project will be mutually determined by the student and instructor.

**MAP 2302 Differential Equations 6A (3) AS MTH**  
PR: MAC 2283 or MAC 2313. First order linear and nonlinear differential equations, higher order linear equations, applications.

**MAP 5316 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 5317 Ordinary Differential Equations II (3) AS MTH**  
PR: MAP 5316 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) BU 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) BU 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) BU 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 3513 Marketing Research (3) BU 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 MAR**  
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) BU 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) BU MKT**  
PR: MAR 3023. A study of procedures and problems associated with establishing marketing operations in foreign countries. Includes the institutional, 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) BU 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) BU 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) BU 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) BU MKT**  
PR: MAR 3023 or CI. A study of sales management and strategy as a subset of marketing management. Emphasis is placed on the selection, development and decision-making skills required of the sales manager in the modern market-oriented company.

**MAR 4453 Business to Business Marketing (3) BU 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) BU 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 MAR**  
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) BU 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 marketing problems.

**MAR 4903 Independent Research (1-3) BU MKT**  
PR: CI. Individual study contract with instructor and department chairperson required. The research project will be mutually determined by the student and instructor.
COURSE DESCRIPTIONS

UNIVERSITY OF SOUTH FLORIDA 2012-2013 UNDERGRADUATE CATALOG

MAR 4905 Independent Study (1-3) BU MKT
PR: CI. S/U only. Specialized independent study determined by the students' needs and interests.

MAR 4933 Selected Topics in Marketing (1-3) BU MKT
Topics to be selected by instructor and department chairperson.

MAS 3105 Linear Algebra 6A (4) 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.

MAS 4156 Vector Calculus 6A (4) 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.

MAS 4214 Elementary Number Theory 6A (3) AS MTH
PR: MAC 2312. No credit towards Mathematics major.
Divisibility, prime numbers, Fundamental Theorem of Arithmetic, Diophantine equations, the algebra of congruences, number functions and other selected topics.

MAS 4301 Elementary Abstract Algebra 6A (3) AS MTH
PR: MAS 3105. An introduction to the basic algebraic structures; groups, rings, integral domains, and fields; homeomorphisms and isomorphisms.

MAS 5145 Advanced Linear Algebra 3 (AS) AS MTH
PR: MAS 3105 and MAS 4301 CP; MAS 5311. Finite-dimensional vector spaces over arbitrary fields, dual spaces, canonical forms for linear transformations, inner product spaces, orthogonal, unitary, and self-adjoint operators and quadratic forms.

MAS 5215 Number Theory 3 (AS) AS MTH
PR: MAS 3105 and MAS 4301, or CI. Fundamental theorem of arithmetic, modular arithmetic, Chinese remainder theorem, Mersenne primes, perfect numbers, Euler-Fermat theorem, pseudo primes, primitive roots, law of quadratic reciprocity, factorization and primality testing algorithms.

MAS 5311 Algebra I (3) AS MTH
PR: MAS 3105 and MAS 4301 or CI. Group theory: Sylow theorems; classification of groups of small order. Ring theory: ideals, quotient rings, polynomial rings, Euclidean domains, principal ideal domains and unique factorization.

MAS 5312 Algebra II (3) AS MTH
PR: MAS 5311 or CI. Continuation of MAS 5311. Finitely generated modules over a principal ideal domain, basic field theory, finite fields, Galois theory.

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 0024 with a grade of "C" or better or appropriate score on the Scholastic Aptitude Test, Mathematics (SATM) Note: students with SATM scores below a cut off. CR: 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 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.

MCT 6A00 Microbiology for Nursing and other Healthcare Professionals (3) NU NUR
Basics of microbiology for health professionals. Focus on disease states and the role of bacteri, viruses, fungi, rickettsiae and other pathogenic organisms.

MCT 2000L Microbiology Lab for Nursing and other Healthcare Professionals (1) NU NUR

MCT 3020C General Microbiology (4) AS BCM
PR: BSC 2010, BSC 2010L, 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. Structure and function of bacteria, archaea, viruses, and eukaryotic microbes. Laboratory includes media preparation and culturing, staining and enumeration techniques. Lecture and Laboratory. PCB 3063 is recommended.

MCT 3410 Cell Metabolism (3) AS BCM
PR: BIO 2010 and BIO 2010L, or CI. PR: CHM 2045. 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.

MCT 4115C Determinative Bacteriology (5) AS BCM
PR: MCB 3020C, CHM 2210, 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. Survey of bacterial classification; detailed examinations of bacteria important to man in agriculture, in industry and as pathogens. Lecture/lab.

MCT 4202 Ecology of Infectious Diseases (3) AS BIN
The ecology of pathogenic microorganisms. Topics include host-parasite interactions, microbial survival strategies, microbial virulence, and environmental influences on the maintenance and spread of disease.

MCT 4313 Industrial Microbiology and Biotechnology (3) AS BCM
PR: MCB 3020C. This course focuses on advanced principles of industrial microbiology/biotechnology. It will expose student to the many applications of industrial microbiology in daily life and through this exposure visualize future entrepreneurial opportunities.

MCT 4320 Molecular Microbiology (3) AS BCM
COURSE DESCRIPTIONS

UNIVERSITY OF SOUTH FLORIDA 2012-2013 UNDERGRADUATE CATALOG

PR: MCB 3020C, PCB 3023, PCB 3063. Lecture based course building on principles from gen. microbiology to explore advanced topics in molecular microbiology. Emphasis is on: molecular genetics of bacteria and bacteriophages and genetic regulation of responses to the natural environment.

MCB 4404 Microbial Physiology and Genetics (4) AS BIN
PR: MCB 3020C and CHM 2210 and MAC 1105 or higher-level MAC course or STA 2023 and PHY 2053. CP: PCB 3023 or PCB 3043 or PCB 3063 or PCB 3712 and CHM 2211. Physiological, metabolic, and genetic phenomena pertinent to understanding the growth, development, ecology, regulation, and reproduction of microorganisms. Emphasizes the interdependence of physiological and genetic approaches. Lecture only.

MCB 4404L Microbial Physiology and Genetics Laboratory (1) AS BIN
CR: MCB 4404. Laboratory portion of Microbial Physiology and Genetics relating to biochemical characteristics and metabolic capabilities of bacteria. Laboratory only.

MCB 4503 Virology (3) AS BCM
PR: 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. The biology of viruses associated with plants, animals, and bacteria will be considered; the nature of viruses, mechanisms of viral pathogenesis, and interactions with host cells.

MCB 4905 Microbiology Undergraduate Research (1-4) AS BCM
PR: CHM 2210 & MAC 1105 or higher-level MAC course or STA 2023 and Cl. CP: PCB 3023 or PCB 3043 or PCB 3063 or PCB 3712 and CHM 2211. S/U only. Junior standing and 3.0 GPA required. Individual investigation with faculty supervision. Written contract by Department is necessary prior to registration.

MCB 4934 Seminar in Microbiology (1) AS BCM
PR: Senior or advanced junior standing. S/U only. Biology majors may take for elective credit.

MCB 5206 Public Health and Pathogenic Microbiology (3) AS BCM
PR: MCB 3020C, Cl. A comprehensive survey of pathogenic microbes responsible for disease in man and other animals and the impact of these infectious agents on the public health. These pathogens will be studied with respect to their morphology, cultivation, mechanisms of pathogenicity, laboratory diagnosis, and epidemiology.

MCB 5208 Cellular Microbiology (3) AS BCM
PCB 3023 ; MCB 3033 Cellular Microbiology is a lecture-based and literature-based course on the interactions between mammalian cells and microbial pathogens and/or their toxins, with a special emphasis on bacteria.

MCB 5655 Applied and Environmental Microbiology (3) AS BIN
PR: MCB 3020C. A Study of the applications of microbiology to the food/beverage industry, agriculture, public health and bioremediation. This course is a microbiology elective and has a mandatory field trip.

MCB 5615 Medical Mycology (3) AS BCM
PR: MCB 3020C or Cl. A modern biological survey of the medically important fungi (yeasts and molds) important to microbiologists and environmental scientists.

MET 4002 Climatology (4) AS GPY
PR: GEO 2200 or Cl. 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 Cl. The earth's atmosphere and its processes; weather forecasting and analysis; instrumentation.

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 (4) 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.

MFF 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.

MFF 4406 The History of Modern Mathematics 6A MW (3) AS MTH
PR: MAC 2313. Traces the development of mathematical ideas in Western culture.

MFF 5306 Mathematical Logic and Foundations I (3) AS MTH
PR: MAS 4301 or Cl. Two-course sequence covering: predicate calculus and classical model theory; transfinite set theory and the system ZFC; recursion theory and decidability.

MFF 5402 The Early History of Mathematics (3) AS MTH
PR: MAC 2312 A study of the history and development of mathematics and its cultural impact from the formation of number systems to the Renaissance.

MFF 5405 History of Modern Mathematics (3) AS MTH
PR: MAC 2313. Traces the development of mathematical ideas in Western culture. Special emphasis is placed on those concepts which led to the Calculus. This course is open to majors and non-majors alike.

MHS 3204 Fundamentals of Applied Behavior Analysis (3) BC CF5
PR: Junior standing or higher. The Fundamentals of Applied Behavior Analysis (ABA) course provides the student with information in the form of lectures,
# COURSE DESCRIPTIONS

**UNIVERSITY OF SOUTH FLORIDA 2012-2013 UNDERGRADUATE CATALOG**

demonstrations, and practical exercises on the basic principles and procedures of ABA.

**MHS 3411 Multidisciplinary Behavioral Healthcare Services (3) BC FMH**
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 FMH**
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 FMH**
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 FMH**
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 (4) ED EDG**
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 Developmental Disabilities (3) BC CFS**
PR: MSH 4202. ABA in Autism and Developmental Disabilities covers the history of autism and developmental disabilities, developmental milestones, skills assessment, developing programs, verbal behavior, and programming for generalization and maintenance.

**MHS 4408 Exemplary Practices in Behavioral Healthcare Treatment (3) BC FMH**
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: CLP 4414. 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 FMH**
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 relationships/behavioral patterns affect healing and return to good health; and how MH professionals serve families struggling with an ailing loved one.

**MHS 4452 Co-Occurring Disorders (3) BC FMH**
This unstructured 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 BHC (3) BC FMH**
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 FMH**
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.
### COURSE DESCRIPTIONS

**UNIVERSITY OF SOUTH FLORIDA 2012-2013 UNDERGRADUATE CATALOG**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisites/Restrictions</th>
</tr>
</thead>
<tbody>
<tr>
<td>MHS 4741</td>
<td>Advanced Research Methods: Behav/Community Science</td>
<td>3</td>
<td>BC FMH, 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.</td>
</tr>
<tr>
<td>MHS 4905</td>
<td>Independent Study: Guidance and Counseling Education</td>
<td>1-4</td>
<td>ED EDG, PR: DPR. S/U only. Specialized independent study determined by the student's needs and interests.</td>
</tr>
<tr>
<td>MHS 4906</td>
<td>Directed Study (1-4) BC FMH</td>
<td></td>
<td>Directed study. Student must have a contract with an instructor.</td>
</tr>
<tr>
<td>MHS 4912</td>
<td>Independent Research in Behavioral Health (1-4) BC FMH</td>
<td></td>
<td>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.</td>
</tr>
<tr>
<td>MHS 4931</td>
<td>Selected Topics (1-4) BC FMH</td>
<td></td>
<td>The course content will depend on student demand and instructor's interest. The course may be repeated for different topics up to 9 hours.</td>
</tr>
<tr>
<td>MHS 4943</td>
<td>Practicum Seminar in Applied Behavior (3) BC FMH</td>
<td></td>
<td>CLP 4414. 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.</td>
</tr>
<tr>
<td>MHS 5020</td>
<td>Foundations of Mental Health Counseling (3) BC REH</td>
<td></td>
<td>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.</td>
</tr>
<tr>
<td>MHS 5480</td>
<td>Human Growth and Development (3) BC REH</td>
<td></td>
<td>RCS 5780, MHS 5020. Majors only. Human development theory as applied in psychotherapy and case management rehabilitation, mental health, and addiction settings.</td>
</tr>
<tr>
<td>MHS 5721</td>
<td>BRIDGE Proseminar I (2) BC FMH</td>
<td></td>
<td>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.</td>
</tr>
<tr>
<td>MHS 5722</td>
<td>BRIDGE Pro Seminar II (2) BC FMH</td>
<td></td>
<td>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.</td>
</tr>
<tr>
<td>MHS 5745</td>
<td>Applied Qualitative Research Methods (3) BC FMH</td>
<td></td>
<td>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 certification.</td>
</tr>
<tr>
<td>MHS 5746</td>
<td>Applied Quantitative Research Methods (3) BC FMH</td>
<td></td>
<td>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.</td>
</tr>
<tr>
<td>MHS 5889</td>
<td>BRIDGE Community Field Experience (2) BC FMH</td>
<td></td>
<td>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.</td>
</tr>
<tr>
<td>MHS 5905</td>
<td>Directed Studies (1-4) ED EDG</td>
<td></td>
<td>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.</td>
</tr>
<tr>
<td>MLS 4038</td>
<td>Introduction to Medical Technology (1-2) AS CHM</td>
<td></td>
<td>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.</td>
</tr>
<tr>
<td>MLS 4860</td>
<td>Clinical Urinalysis and Body Fluids (2) AS CHM</td>
<td></td>
<td>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.</td>
</tr>
<tr>
<td>MLS 4861</td>
<td>Clinical Immunology (2) AS CHM</td>
<td></td>
<td>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.</td>
</tr>
<tr>
<td>MLS 4862</td>
<td>Clinical Hematology (6) AS CHM</td>
<td></td>
<td>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.</td>
</tr>
<tr>
<td>MLS 4863</td>
<td>Clinical Microbiology (6) AS CHM</td>
<td></td>
<td>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.</td>
</tr>
<tr>
<td>MLS 4864</td>
<td>Clinical Chemistry (6) AS CHM</td>
<td></td>
<td>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.</td>
</tr>
<tr>
<td>MLS 4865</td>
<td>Clinical Immunohematology (6) AS CHM</td>
<td></td>
<td>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.</td>
</tr>
<tr>
<td>MLS 4866</td>
<td>Clinical Laboratory Management and Education (1) AS CHM</td>
<td></td>
<td>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.</td>
</tr>
</tbody>
</table>
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 evaluation.

MMC 2110 Scientific Writing (3) AP COM
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 COM
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 repeatable for credit.

MMC 4120 Media Convergence (3) AP COM
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 COM
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 COM
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.

MSL 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.

MSL 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.

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 & operations; 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 develop/evaluate leadership and officer potential. The course is intentionally stressful and 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. All scenarios are from the Army Leader Development Assessment Course are presented. Develops self-awareness & critical thinking skills with challenging scenarios. Provides feedback on leader skills.

MSL 4301C Developing Adaptive Leaders (3) US MIS
Develops ability to plan, & assess complex operations, functioning as member of a staff; provides performance feedback to subordinates; gives opportunities to assess risk, make ethical decisions, & lead fellow cadets; prepares in becoming Army officer.

MSL 4302C Leadership in a Complex World (3) US MIS
Explores dynamics of leadership in complex situations of current military operations in current operating environment; examines differences in courtesies, military law, principles of war & rules of engagement in face of international terror & more.

MSL 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 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) TA 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) TA 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) TA MUS
PR: MUC 1212. Students will complete two large-scale chamber works (continuing to learn to orchestrate for strings and winds), two business-oriented projects, lead a discussion based on the writing of a selected composer, and explore major pieces from the literature.

MUC 2222 Sophomore Composition and Instrumentation 2 (2) TA MUS
PR: MUC 1212. Sophomore Composition is a two-semester course 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) TA 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) TA 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) TA 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) TA 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) TA 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) TA 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) TA 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 4241 Senior Composition and Instrumentation (2)**
TA MUS  
PR: MUC 3232. A one-semester course which requires each student to complete two pieces, seven business-oriented projects, lead a discussion based on the writing of a selected composer, and explore major pieces from the literature.

**MUC 4403 Electronic Music-Real-Time Performance I (3)**
TA 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)**
TA 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)**
TA MUS  
PR: MUC 3534 and/or DPR. Private instruction in original jazz composition. Required of All Jazz Studies Comp. majors, minimum six of hours.

**MUC 4950 Senior Recital/Project/Portfolio Presentation (2)**
TA 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)**
TA MUS  
PR: CI. Required of all composition majors. Private instruction in original composition.

**MUE 2090 Foundations of Music Education (3)**
TA 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)**
TA 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)**
TA 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)**
TA 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 instruments and ensembles.

**MUE 3423 String Techniques (1)**
TA 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)**
TA 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)**
TA 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)**
TA MUS  
Introduction to percussion pedagogy for the music educator.

**MUE 3930 Music Education Forum (1)**
TA 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)**
TA 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)**
TA MUS  
PR: DPR. Senior standing. Development and implementation of methods techniques for teaching secondary school choral music.

**MUE 4332 Instrumental Methods (3)**
TA MUS  

**MUE 4480 Special Ensemble Methods (2)**
TA MUS  
This course is restricted to majors and is repeatable for up to 6 credits.

**MUE 4936 Senior Seminar in Music WRIN (3)**
TA MUS  

**MUE 4940 Internship: Music Education CPST (6-10)**
TA MUS  
CR: MUE 4936. One full semester of internship in public or private elementary and secondary schools. Restricted to majors. May not be repeated for credit.

**MUG 3104 Basic Conducting (2)**
TA 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)**
TA 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 3402 Instrumental Conducting (2)**
TA 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.
COURSE DESCRIPTIONS

UNIVERSITY OF SOUTH FLORIDA 2012-2013 UNDERGRADUATE CATALOG

MUH 2020 The History of Blues and Rock FA CAFA HHCP (3) TA 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 AF CAFA (3) TA 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) TA 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) TA 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) TA 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) TA 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) TA 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) TA 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) TA 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) TA 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) TA 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 AF (2-3) TA 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) TA 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) TA 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) TA 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) TA MUS
This course provides performance experiences with the Marching Band. The course is open to any major area.

MUN 1120 Concert Band (1) TA 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) TA 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 3143 Wind Ensemble (1) TA 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 3213 University Orchestra (1) TA 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) TA 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) TA 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.
## COURSE DESCRIPTIONS

**UNIVERSITY OF SOUTH FLORIDA 2012-2013 UNDERGRADUATE CATALOG**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>PR:</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUN 3333</td>
<td>Singing Stampede (1) TA MUS</td>
<td>DPR</td>
<td>Open to all university students with the necessary proficiency in their performance media; study and performance of male-chorus music and male-chorus music in combination with string, woodwind, brass, or percussion instruments.</td>
</tr>
<tr>
<td>MUN 3343</td>
<td>Chamber Singers (1) TA MUS</td>
<td>DPR</td>
<td>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.</td>
</tr>
<tr>
<td>MUN 3383</td>
<td>Community Chorus (1) TA MUS</td>
<td>DPR</td>
<td>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, and piano.</td>
</tr>
<tr>
<td>MUN 3411</td>
<td>String Quartet (1) TA MUS</td>
<td>DPR</td>
<td>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.</td>
</tr>
<tr>
<td>MUN 3420</td>
<td>Saxophone Ensemble (1) TA MUS</td>
<td>DPR</td>
<td>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.</td>
</tr>
<tr>
<td>MUN 3421</td>
<td>Flute Choir (1) TA MUS</td>
<td>DPR</td>
<td>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.</td>
</tr>
<tr>
<td>MUN 3424</td>
<td>Woodwind Quintet (1) TA MUS</td>
<td>DPR</td>
<td>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.</td>
</tr>
<tr>
<td>MUN 3427</td>
<td>Flute Choir (1) TA MUS</td>
<td>DPR</td>
<td>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.</td>
</tr>
<tr>
<td>MUS 2010</td>
<td>Recital Attendance (0) TA MUS</td>
<td>DPR</td>
<td>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.</td>
</tr>
<tr>
<td>MUS 4905</td>
<td>Directed Study (1-4) TA MUS</td>
<td>DPR</td>
<td>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.</td>
</tr>
<tr>
<td>MUS 4930</td>
<td>Selected Topics In Music (1-4) TA MUS</td>
<td>DPR</td>
<td>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.</td>
</tr>
<tr>
<td>MUS 4931</td>
<td>Selected Studio Topics In Music (1-4) TA MUS</td>
<td>DPR</td>
<td>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.</td>
</tr>
<tr>
<td>MUS 4933</td>
<td>Brass Choir (1) TA MUS</td>
<td>DPR</td>
<td>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.</td>
</tr>
<tr>
<td>MUS 4943</td>
<td>Percussion Ensemble (1) TA MUS</td>
<td>DPR</td>
<td>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.</td>
</tr>
<tr>
<td>MUS 4944</td>
<td>Marimba Ensemble (1) TA MUS</td>
<td>DPR</td>
<td>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.</td>
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**Specialized Study in Language Diction for Singers (1) TA 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.
COURSE DESCRIPTIONS

UNIVERSITY OF SOUTH FLORIDA 2012-2013 UNDERGRADUATE CATALOG

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) TA 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) TA 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) TA 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) TA 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) TA MUS
PR: MUT 1112, DPR. Required of music majors, continuation of MUT 1111 and 1112.

MUT 2117 Music Theory IV (3) TA MUS
PR: MUT 2116, DPR. Required of music majors, continuation of MUT 1111, 1112, and 2116.

MUT 2246 Aural Theory III (1) TA 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) TA 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) TA 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) TA MUS
PR: MUT 2641 or DPR. A study of jazz improvisational techniques and related jazz theory.

MUT 3353 Jazz Composition And Arranging I (3) TA 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) TA 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) TA 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) TA 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) TA 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) TA 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) TA 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) TA 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) TA 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) TA 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) TA 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 1214 Applied Euphonium (1) TA 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) TA 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 1218 Applied Bassoon (1) TA 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 1219 Applied Clarinet (1) TA 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 1220 Applied Oboe (1) TA 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) TA MUS
PR: DPR. Required of all music education and composition majors. Open to a limited number of nonmusic majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

MVB 1312 French Horn Principal (2) TA 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) TA 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) TA 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) TA 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) TA 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) TA 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) TA 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) TA 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) TA 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.

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 2322 French Horn Principal (2) TA 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 2323 Trombone Principal (2) TA 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 2324 Euphonium Principal (2) TA 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 2325 Tuba Principal (2) TA 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 2421 Trumpet Major (3) TA MUS**
PR: DPR. Necessary competency at Sophomore level determined by faculty jury examination. Required of all applied music majors. Private and class instruction.

**MVB 2422 French Horn Major (3) TA MUS**
PR: DPR. Necessary competency at Sophomore level determined by faculty jury examination. Required of all applied music majors. Private and class instruction.

**MVB 2423 Trombone Major (3) TA 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) TA 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) TA 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) TA 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) TA 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) TA 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) TA 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) TA MUS**
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>PR: DPR. Necessary competency at junior level determined by faculty jury examination. Required of all applied music majors. Private and class instruction.</th>
</tr>
</thead>
<tbody>
<tr>
<td>MVB 3433</td>
<td>Trombone Major (3) TA MUS</td>
<td>Required of all applied music majors. Private and class instruction.</td>
</tr>
<tr>
<td>MVB 3434</td>
<td>Euphonium Major (3) TA MUS</td>
<td>Required of all applied music majors. Private and class instruction.</td>
</tr>
<tr>
<td>MVB 3435</td>
<td>Tuba Major (3) TA MUS</td>
<td>Required of all applied music majors. Private and class instruction.</td>
</tr>
<tr>
<td>MVB 4341</td>
<td>Trumpet Principal (2) TA MUS</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>
</tr>
<tr>
<td>MVB 4342</td>
<td>French Horn Principal (2) TA MUS</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>
</tr>
<tr>
<td>MVB 4343</td>
<td>Trombone Principal (2) TA MUS</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>
</tr>
<tr>
<td>MVB 4344</td>
<td>Euphonium Principal (2) TA MUS</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>
</tr>
<tr>
<td>MVB 4345</td>
<td>Tuba Principal (2) TA MUS</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>
</tr>
<tr>
<td>MVB 4441</td>
<td>Trumpet Major (3) TA MUS</td>
<td>Necessary competency at senior level determined by faculty jury examination. Required of all applied music majors. Private and class instruction.</td>
</tr>
<tr>
<td>MVB 4442</td>
<td>French Horn Major (3) TA MUS</td>
<td>Necessary competency at senior level determined by faculty jury examination. Required of all applied music majors. Private and class instruction.</td>
</tr>
<tr>
<td>MVB 4443</td>
<td>Trombone Major (3) TA MUS</td>
<td>Necessary competency at senior level determined by faculty jury examination. Required of all applied music majors. Private and class instruction.</td>
</tr>
<tr>
<td>MVB 4444</td>
<td>Euphonium Major (3) TA MUS</td>
<td>Necessary competency at senior level determined by faculty jury examination. Required of all applied music majors. Private and class instruction.</td>
</tr>
<tr>
<td>MVB 4445</td>
<td>Tuba Major (3) TA MUS</td>
<td>Necessary competency at senior level determined by faculty jury examination. Required of all applied music majors. Private and class instruction.</td>
</tr>
<tr>
<td>MVB 5251</td>
<td>Applied Trumpet (2-4) TA MUS</td>
<td>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.</td>
</tr>
</tbody>
</table>

**Course Descriptions**

**Universities of South Florida 2012-2013 Undergraduate Catalog**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>PR: DPR. Necessary competency at junior level determined by faculty jury examination. Required of all applied music majors. Private and class instruction.</th>
</tr>
</thead>
<tbody>
<tr>
<td>MVB 5252</td>
<td>Applied French Horn (2-4) TA MUS</td>
<td>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.</td>
</tr>
<tr>
<td>MVB 5253</td>
<td>Applied Trombone (2-4) TA MUS</td>
<td>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.</td>
</tr>
<tr>
<td>MVB 5254</td>
<td>Applied Euphonium (2-4) TA MUS</td>
<td>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.</td>
</tr>
<tr>
<td>MVB 5255</td>
<td>Applied Tuba (2-4) TA MUS</td>
<td>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.</td>
</tr>
<tr>
<td>MVJ 1210</td>
<td>Applied Jazz Piano (1) TA MUS</td>
<td>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.</td>
</tr>
<tr>
<td>MVJ 1213</td>
<td>Applied Jazz Guitar (1) TA MUS</td>
<td>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.</td>
</tr>
<tr>
<td>MVJ 1219</td>
<td>Jazz Percussion (1) TA MUS</td>
<td>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.</td>
</tr>
<tr>
<td>MVJ 1310</td>
<td>Applied Jazz Piano Principal (2) TA MUS</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>
</tr>
<tr>
<td>MVJ 1313</td>
<td>Jazz Guitar Principal (2) TA MUS</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>
</tr>
<tr>
<td>MVJ 1314</td>
<td>Jazz Bass Principal (2) TA MUS</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>
</tr>
</tbody>
</table>
COURSE DESCRIPTIONS

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) TA 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 1410 Applied Jazz Piano Major (3) TA 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) TA 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) TA 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) TA 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 2110 Jazz Keyboard Skills (2) TA MUS
PR: MUS 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) TA 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 2322 Jazz Guitar Principal (2) TA 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) TA 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) TA 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) TA MUS
PR: DPR. Necessary competency at Sophomore level determined by faculty jury examination. Required of all applied music majors. Private and class instruction.

MVJ 2423 Jazz Guitar Major (3) TA MUS
PR: DPR. Necessary competency at Sophomore level determined by faculty jury examination. Required of all applied music majors. Private and class instruction.

MVJ 2424 Jazz Bass Major (3) TA MUS
PR: DPR. Necessary competency at Sophomore level determined by faculty jury examination. Required of all applied music majors. Private and class instruction.

MVJ 2425 Jazz Percussion Major (3) TA MUS
PR: Must be Jazz Studies Major. Applied instruction for Jazz Percussion Majors, Freshman level Restricted to Majors Repeateable.(9 credits total) Applied Jazz Lessons are specialized performance studies designed to improve student instrumental, stylistic and improvisational skills.

MVJ 3330 Applied Jazz Piano Principal (2) TA 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 3333 Jazz Guitar Principal (2) TA 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 3334 Jazz Bass Principal (2) TA 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 3339 Applied Jazz Percussion Principal (2) TA 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 3430 Applied Jazz Piano Major (3) TA 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) TA MUS
PR: DPR. Necessary competency at junior level determined by faculty jury examination. Required of all applied music majors. Private and class instruction.

MVJ 3434 Jazz Bass Major (3) TA MUS
PR: DPR. Necessary competency at junior level determined by faculty jury examination. Required of all applied music majors. Private and class instruction.

MVJ 3439 Applied Jazz Percussion (3) TA MUS
PR: DPR. Necessary competency at junior level determined by faculty jury examination. Required of all applied music majors. Private and class instruction.

MVJ 4340 Jazz Piano Principal (2) TA 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) TA 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 4344 Jazz Bass Principal (2) TA MUS
## COURSE DESCRIPTIONS

**MVJ 4349 Jazz Percussion Principal (2) TA 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) TA 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 4443 Jazz Guitar Major (3) TA MUS**
PR: DPR. Necessary competency at senior level determined by faculty jury examination. Required of all applied music majors. Private and class instruction.

**MVJ 4444 Jazz Bass Major (3) TA 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) TA MUS**
PR: DPR. Necessary competency at senior level determined by faculty jury examination. Required of all applied music majors. Private and class instruction.

**MVJ 4450 Applied Jazz Performance (3) TA 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) TA 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) TA 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) TA 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) TA 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) TA 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) TA 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) TA 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 1121 Piano Principal (2) TA MUS**
PR: MVK 1111 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 1131 Piano Principal (2) TA 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 1411 Piano Major (3) TA 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) TA 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 II (2) TA MUS**
PR: MVK 1111 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 2112 Keyboard Skills IV (2) TA MUS**
PR: MVK 1111 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) TA 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) TA 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) TA 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) TA 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
COURSE DESCRIPTIONS

are NOT available on S/U basis. Private and class instruction.

MVK 3431 Piano Major (3) TA 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) TA MUS
PR: DPR. Required of all music education and composition majors. Open to a limited number of nonmusic majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

MVP 4441 Percussion Major (3) TA MUS
PR: DPR. Necessary competency at junior level determined by faculty jury examination. Required of all applied music majors. Private and class instruction.

MVP 4341 Percussion Principal (2) TA MUS
PR: DPR. Required of all music education and composition majors. Open to a limited number of nonmusic majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

MVP 5251 Applied Percussion, Secondary (2-4) TA 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.

MVP 1211 Applied Triad Theory (3) TA 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 1212 Applied Viola (1) TA 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 1213 Applied Double Bass (1) TA 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 Applied Viola (1) TA 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 1312 Applied Violoncello (1) TA 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 1313 Applied Bass (1) TA 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 1314 Applied Double Bass (1) TA MUS
PR: DPR. Required of all music education and composition majors. Open to a limited number of nonmusic majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

MVP 3331 Percussion Principal (2) TA MUS
PR: DPR. Required of all music education and composition majors. Open to a limited number of nonmusic majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

MVP 4341 Percussion Major (3) TA MUS
PR: DPR. Necessary competency at junior level determined by faculty jury examination. Required of all applied music majors. Private and class instruction.

MVS 1211 Applied Violin (1) TA 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 Percussion Principal (2) TA MUS
PR: DPR. Required of all music education and composition majors. Open to a limited number of nonmusic majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

MVS 1313 Violoncello Principal (2) TA MUS
PR: DPR. Required of all music education and composition majors. Open to a limited number of nonmusic majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

MVS 1314 Double Bass Principal (2) TA MUS
PR: DPR. Required of all music education and composition majors. Open to a limited number of nonmusic majors by audition only. Applied music courses
are NOT available on S/U basis. Private and class instruction.

**MVS 1411 Violin Major (3) TA 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.

**MVS 1412 Viola Major (3) TA 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.

**MVS 1413 Cello Major (3) TA 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.

**MVS 1414 Double Bass Major (3) TA 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.

**MVS 2321 Violin Principal (2) TA 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 2322 Viola Principal (2) TA 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 2323 Violoncello Principal (2) TA 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 2324 Double Bass Principal (2) TA 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 2421 Violin Major (3) TA MUS**
PR: DPR. Necessary competency at Sophomore level determined by faculty jury examination. Required of all applied music majors. Private and class instruction.

**MVS 2422 Viola Major (3) TA MUS**
PR: DPR. Necessary competency at Sophomore level determined by faculty jury examination. Required of all applied music majors. Private and class instruction.

**MVS 2423 Cello Major (3) TA MUS**
PR: DPR. Necessary competency at Sophomore level determined by faculty jury examination. Required of all applied music majors. Private and class instruction.

**MVS 2424 Double Bass Major (3) TA MUS**
PR: DPR. Necessary competency at Sophomore level determined by faculty jury examination. Required of all applied music majors. Private and class instruction.

**MVS 3332 Viola Principal (2) TA 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 3333 Violoncello Principal (2) TA 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 3334 Double Bass Principal (2) TA 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 3431 Violin Major (3) TA 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) TA 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) TA 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) TA 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 Violin Principal (2) TA 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 3434 Violoncello Principal (2) TA 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 3441 Violin Major (3) TA MUS**
PR: DPR. Necessary competency at junior level determined by faculty jury examination. Required of all applied music majors. Private and class instruction.

**MVS 3442 Viola Major (3) TA MUS**
PR: DPR. Necessary competency at junior level determined by faculty jury examination. Required of all applied music majors. Private and class instruction.

**MVS 3443 Cello Major (3) TA MUS**
### COURSE DESCRIPTIONS

**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) TA 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) TA 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) TA 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) TA 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) TA 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) TA 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) TA MUS**
- PR: DPR. Required of all music education and composition majors. Open to a limited number of nonmusic majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

**MVV 1411 Voice Major (3) TA 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) TA MUS**
- PR: DPR. Required of all music education and composition majors. Open to a limited number of nonmusic majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

**MVV 2421 Voice Major (3) TA MUS**
- PR: DPR. Necessary competency at Sophomore level determined by faculty jury examination. Required of all applied music majors. Private and class instruction.

**MVV 3331 Voice Principal (2) TA MUS**
- PR: DPR. Required of all music education and composition majors. Open to a limited number of nonmusic majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

**MVV 3431 Voice Major (3) TA 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) TA 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) TA MUS**
- PR: DPR. Required of all music education and composition majors. Open to a limited number of nonmusic majors by audition only. Applied music courses are NOT available on S/U basis. Private and class instruction.

**MVV 4441 Voice Major (3) TA MUS**
- PR: DPR. Necessary competency at senior level determined by faculty jury examination. Required of all applied music majors. Private and class instruction.

**MVV 5251 Applied Voice (2-4) TA 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 Flute (1) TA 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.

**MVV 1212 Applied Oboe (1) TA 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.

**MVV 1213 Applied Clarinet (1) TA 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.

**MVV 1214 Applied Bassoon (1) TA 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.

**MVV 1215 Applied Saxophone (1) TA 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.

**MVV 1311 Flute Principal (2) TA 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 1312 Oboe Principal (2) TA 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) TA 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 2322 Oboe Principal (2) TA 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 1315 Saxophone Principal (2) TA 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 2323 Clarinet Principal (2) TA 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 2324 Bassoon Principal (2) TA 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 2325 Saxophone Principal (2) TA 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 1411 Flute Major (3) TA 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 1414 Bassoon Major (3) TA 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 1415 Saxophone Major (3) TA 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 2221 Flute Principal (2) TA 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 2331 Clarinet Principal (2) TA 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 2332 Oboe Major (3) TA 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 2333 Saxophone Principal (2) TA 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 2334 Bassoon Principal (2) TA 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 2421 Flute Major (3) TA MUS  
PR: DPR. Necessary competency at Sophomore level determined by faculty jury examination. Required of all applied music majors. Private and class instruction.

MVW 2422 Oboe Major (3) TA MUS  
PR: DPR. Necessary competency at Sophomore level determined by faculty jury examination. Required of all applied music majors. Private and class instruction.

MVW 2423 Clarinet Major (3) TA MUS  
PR: DPR. Necessary competency at Sophomore level determined by faculty jury examination. Required of all applied music majors. Private and class instruction.

MVW 2424 Bassoon Major (3) TA MUS  
PR: DPR. Necessary competency at Sophomore level determined by faculty jury examination. Required of all applied music majors. Private and class instruction.

MVW 2425 Saxophone Major (3) TA MUS  
PR: DPR. Necessary competency at Sophomore level determined by faculty jury examination. Required of all applied music majors. Private and class instruction.

MVW 3331 Flute Principal (2) TA 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 3332 Oboe Principal (2) TA 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 3333 Clarinet Principal (2) TA 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 3334 Bassoon Principal (2) TA 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 3335 Saxophone Principal (2) TA 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 3431 Flute Major (3) TA MUS  
PR: DPR. Necessary competency at junior level determined by faculty jury examination. Required of all applied music majors. Private and class instruction.

MVW 3432 Oboe Major (3) TA MUS  
PR: DPR. Necessary competency at junior level determined by faculty jury examination. Required of all applied music majors. Private and class instruction.

MVW 3433 Clarinet Major (3) TA MUS  
PR: DPR. Necessary competency at junior level determined by faculty jury examination. Required of all applied music majors. Private and class instruction.

MVW 3434 Bassoon Major (3) TA MUS  
PR: DPR. Necessary competency at junior level determined by faculty jury examination. Required of all applied music majors. Private and class instruction.
### COURSE DESCRIPTIONS

**MVW 3435 Saxophone Major (3) TA MUS**
PR: DPR. Necessary competency at junior level determined by faculty jury examination. Required of all applied music majors. Private and class instruction.

**MVW 4341 Flute Principal (2) TA 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) TA 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) TA 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) TA 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) TA 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 4441 Flute Major (3) TA MUS**
PR: DPR. Necessary competency at junior level determined by faculty jury examination. Required of all applied music majors. Private and class instruction.

**MVW 4442 Oboe Major (3) TA MUS**
PR: DPR. Necessary competency at junior level determined by faculty jury examination. Required of all applied music majors. Private and class instruction.

**MVW 4443 Clarinet Major (3) TA MUS**
PR: DPR. Necessary competency at junior level determined by faculty jury examination. Required of all applied music majors. Private and class instruction.

**MVW 4444 Bassoon Major (3) TA MUS**
PR: DPR. Necessary competency at junior level determined by faculty jury examination. Required of all applied music majors. Private and class instruction.

**MVW 4445 Saxophone Major (3) TA MUS**
PR: DPR. Necessary competency at junior level determined by faculty jury examination. Required of all applied music majors. Private and class instruction.

**MVW 5251 Applied Flute (2-4) TA 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) TA 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) TA 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) TA 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) TA 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.

**NGR 5871 Informatics in Nursing and Healthcare (3) NU NUR**
PR: CI. Foundations course with emphasis on essential content and applications in healthcare informatics and clinical systems. Provides understanding of the interdisciplinary issues in medical and nursing informatics and a foundation for those seeking expertise in healthcare informatics. Focus on technologies in healthcare, nomenclatures and classification systems, health care documentation, electronic medical records, and web-based technologies for healthcare.

**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**

**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
### COURSE DESCRIPTIONS

**UNIVERSITY OF SOUTH FLORIDA 2012-2013 UNDERGRADUATE CATALOG**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Prerequisites</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>NSC 3123 Naval Ships Systems II (3) US NVY</td>
<td>Psychological and Social Foundations for Clinical Judgment</td>
<td>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.</td>
<td>Provides 120 hours of clinical opportunities of effective leadership with foundations for governance of the military/veteran culture and the healthcare needs and concerns related to this unique population.</td>
</tr>
<tr>
<td>NSC 3214C Navigation/Naval Operations II: Seamanship and Ship Operations (3) US NVY</td>
<td>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.</td>
<td>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.</td>
<td>Provides 120 hours of clinical experiences in the roles and responsibilities and technical levels of war from the past.</td>
</tr>
<tr>
<td>NSC 4224 Amphibious Warfare (3) US NVY</td>
<td>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.</td>
<td>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.</td>
<td>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.</td>
</tr>
<tr>
<td>NSC 4232 Principles of Naval Management II (Leadership and Ethics) (3) US NVY</td>
<td>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.</td>
<td>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.</td>
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</tr>
<tr>
<td>NSP 3147 Web-Based Education for Staff Development (3) NU NUR</td>
<td>This course provides the learner with the knowledge and skills to facilitate the development of web-based educational materials for nursing and healthcare staff.</td>
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</tr>
<tr>
<td>NUR 3078 Information Technology Skills for Nurses (1) NU NUR</td>
<td>CR: NUR 3026, 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.</td>
<td>CR: NUR 3026, 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.</td>
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</tr>
<tr>
<td>NUR 3080 Foundations of Healthcare QI &amp; Patient Safety (3) NU NUR</td>
<td>CR: NUR 3026, 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.</td>
<td>CR: NUR 3026, 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.</td>
<td>CR: NUR 3026, 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.</td>
</tr>
<tr>
<td>NUR 3095 Registered Nurse First Assistant Course (3) NU NUR</td>
<td>PR: CI; CP: NUR 3026L and NUR 3066.</td>
<td>This course provides the learner with the knowledge and skills to facilitate the development of web-based educational materials for nursing and healthcare staff.</td>
<td>This course provides the learner with the knowledge and skills to facilitate the development of web-based educational materials for nursing and healthcare staff.</td>
</tr>
<tr>
<td>NUR 3096 Internship for the Registered Nurse First Assistant (4) NU NUR</td>
<td>PR: CI; CP: NUR 3026L and NUR 3066.</td>
<td>This course provides 120 hours of clinical experiences in the roles and responsibilities and technical skills required of the registered nurse first assistant (RNFA).</td>
<td>This course provides the learner with the knowledge and skills to facilitate the development of web-based educational materials for nursing and healthcare staff.</td>
</tr>
<tr>
<td>NUR 4485 An Interdisciplinary Perspective in HIV Disease 6A MW LW (3) NU NUR</td>
<td>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.</td>
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<td>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.</td>
</tr>
<tr>
<td>NUR 4545 Substance Abuse Across the Lifespan 6A MW LW (3) NU NUR</td>
<td>PR: Admission to the nursing major or CI; CP: NUR 3026. Focus on developing technical skills and knowledge.</td>
<td>PR: Admission to the nursing major or CI; CP: NUR 3026. Focus on developing technical skills and knowledge.</td>
<td>PR: Admission to the nursing major or CI; CP: NUR 3026. Focus on developing technical skills and knowledge.</td>
</tr>
<tr>
<td>NUR 3125 Pathophysiology for Nursing Practice (4) NU NUR</td>
<td>CR: NUR 3026, 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.</td>
<td>CR: NUR 3026, 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.</td>
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</tr>
<tr>
<td>NUR 3145 Pharmacology in Nursing Practice (3) NU NUR</td>
<td>CR: NUR 3026, 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.</td>
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</tr>
<tr>
<td>NUR 3215 Medical Surgical Nursing I (3) NU NUR</td>
<td>CR: NUR 3026, NUR 3066, NUR 3125, NUR 3145; CR: NUR 3215 or NGR 5580L.</td>
<td>CR: NUR 3026, NUR 3066, NUR 3125, NUR 3145; CR: NUR 3215 or NGR 5580L.</td>
<td>CR: NUR 3026, NUR 3066, NUR 3125, NUR 3145; CR: NUR 3215 or NGR 5580L.</td>
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</tbody>
</table>

**Note:** Course content and title may vary from term to term.
**COURSE DESCRIPTIONS**

**UNIVERSITY OF SOUTH FLORIDA 2012-2013 UNDERGRADUATE CATALOG**

NUR 3215L Medical Surgical Nursing Clinical I (4) NU NUR  

NUR 3535 Psychiatric/Mental Health Nursing (3) NU NUR  

NUR 3535L Psychiatric/Mental Health Nursing Clinical (3) NU 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) NU 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 3605 Education Transitions for Registered Nurses (2) NU 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 (3) NU NUR  
PR: CI. Nursing Majors. Introduction to contemporary bioethological 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) NU NUR  
PR: Admission to Nursing major. The course 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) NU 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 4069 Health Assessment for Registered Nurses (3) NU 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) NU 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) NU 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 the synthesis of research findings for application in evidence-based nursing practice. Focus on evidence-based practice for nursing.

NUR 4169 Evidence-Based Practice for Bacc Prepared Nurse (3) NU NUR  
PR: NUR 3078, NUR 3805, NUR 4895. 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 Clinical II (4) NU NUR  

NUR 4216L Medical Surgical Nursing Clinical II (5) NU NUR  

NUR 4286 Geriatric Nursing: Population-based Perspectives on Nursing Care of Older Adults 6A LW WRIN (3) NU NUR  
PR: NUR 3026, NUR 3066, NUR 3125, NUR 3145, NUR 31215. 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) NU 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) NU NUR  
PR: NUR 3215, NUR 3525 or NUR 3535, NUR 4216 and NUR 3215L, NUR 4216L and NUR 3525/NUR 3535L or NGR 5580L. CR: NUR 4355; CP: NUR 4635L or NGR 5680L. 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) NU NUR
COURSE DESCRIPTIONS

UNIVERSITY OF SOUTH FLORIDA 2012-2013 UNDERGRADUATE CATALOG

PR: NUR 4216, NUR 4216L; CR: NUR 4355, 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) NU NUR
PR: NUR 4828, NUR 3805, NUR 4169. 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 4655L Integrated Nursing Clinical: Community/Public Health, Children and Adolescent Health, and Women’s Health (3-7) NU 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) NU 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. In-depth examination of community health nursing, public health, epidemiology, culture, and environment essential to preventing illness and injury and promoting and preserving health among diverse populations at risk.

NUR 4636L Community/Public Health Nursing Clinical (3) NU 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) NU 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) NU 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) NU 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) NU 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 4828 Foundations of Nursing Healthcare Leadership & Management (3) NU NUR
PR: NUR 3078, NUR 3805, NUR 4895. Provides an overview of leadership and management theories and competencies required in today’s inter-disciplinary healthcare environment.

NUR 4895 Educational Role of the Nurse in Healthcare (3) NU 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 health care staff.

NUR 4905C Independent Study (1-5) NU 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) NU NUR
PR: CL. 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) NU 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 4940 Internship for the Registered Nurse First Assistant (4) NU NUR
PR: CL. This course provides 120 hours of clinical experiences in the roles and responsibilities and technical skills required of the registered nurse first assistant (RNFA).

NUR 4948L Preceptorship (6) NU 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.

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 (oceans floor and coasts) and biological (all life in the oceans) aspects, and their interactions.

OCE 4890 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**

**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: 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 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 only. 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 PAD**
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 PAD**
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 PAD**
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 PAD**
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 PAD**
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 PAD**
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 PAD**
Sr. & GS only. Selected issues and topics in Public Administration and Public Policy.

**PAD 5044 Environment of Public Administration (3) AS PAD**
Examination of the legal, political, and ethical environment in which public managers work.

**PAD 5605 Administrative Law and Regulation (3) AS PAD**
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 PAD**
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 PAD**
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.
COURSE DESCRIPTIONS

UNIVERSITY OF SOUTH FLORIDA 2012-2013 UNDERGRADUATE CATALOG

PAD 5836 Comparative Public Administration (3) AS PAD
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 2111, BSC 2111L & 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, organellar 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 2111, BSC 2111L & CHM 2045, CHM 2046 & MAC 1105 or higher-level MAC course or STA 2023. 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 2111, BSC 2111L & CHM 2045, CHM 2046 & MAC 1105 or higher-level MAC course or STA 2023. 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 3712 General Physiology (3) AS BIN
PR: BSC 2010, BSC 2010L, BSC 2111, BSC 2111L 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 (3) AS BCM
Experimental analysis of genetic systems. Lec-Lab.

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 molecular biology.

PCB 4674 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 4955. 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/nonmajors.

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 fresh-water 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 5516 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.

PEL 1121 Golf I (2) ED EDJ
S/U only. Introductory experience in the sport of golf. Fundamental skills, information, strategy, and participation.

PEL 1341 Tennis I (2) ED EDJ
S/U only. Introductory experiences in the sport of tennis. Basic skills, playing strategies, lecture, demonstration, and participation.
COURSE DESCRIPTIONS

UNIVERSITY OF SOUTH FLORIDA 2012-2013 UNDERGRADUATE CATALOG

PEL 2122 Golf II (2) ED EDJ
S/U only. Continuation of PEL 1121. Emphasis on course play and refinement of strokes.

PEL 2342 Tennis II (2) ED EDJ
S/U only. Continuation of PEL 1314L. Refinement of basic skills, supplementary strokes, greater emphasis on tactics and playing strategies.

PEL 2441 Racquetball (2) ED EDJ
S/U only. Development and refinement of the skills and strategies of racquetball with opportunity for competition and tournament play.

PEM 2131 Weight Training (2) ED EDJ
S/U only. Knowledge and techniques necessary for increasing muscle function. Assessment of status and development of a personal program.

PEM 2441 Karate (2) ED EDJ
S/U only. Introductory experiences in the sport of Karate. Fundamental skills, strategy, information, and participation.

PEM 2930 Selected Topics (1-2) ED EDJ
S/U only. DPR. Activities offered are selected to reflect student need and faculty interest.

PEN 1121 Swimming I (2) ED EDJ
S/U only. Development and refinement of the essential skills and information necessary for enjoying swimming. Emphasis on personal safety.

PEN 2136 Skin & Scuba Diving (2) ED EDJ
PR: PEN 1121 or equivalent. S/U only. Development of the essential skills and knowledge necessary for enjoying the sport of Skin & Scuba Diving. Correct utilization and care of equipment; emphasis on personal safety.

PET 3010 Personal/Professional Development Seminar (3) ED EDP
PR: PET 3012. This is the first of a two course sequence of orientation and socialization into the profession and is intended to develop dispositions necessary for successful professional practice.

PET 3012 Professional Development in Physical Education I (1) ED EDP
PR: CC. This is the first of a two course sequence of orientation and socialization into the profession and is intended to develop dispositions necessary for successful professional practice.

PET 3013 Professional Development in Physical Education II (1) ED EDP
PR: PET 3012. This is the second of a two-course sequence of orientation and socialization into the profession and is intended to develop dispositions necessary for successful professional practice.

PET 3031 Motor Behavior (3) ED EDP
PR: CC. Study of the assessment, evaluation and motor development performance of children and adolescents and application of principles of motor skills acquisition in physical education instruction. Open to non-majors.

PET 3076 Fitness Across the Lifespan (3) ED EDP
PR: Admission to Exercise Science Program. This course will focus on the physiological changes of physical activity in children, adolescents and the elderly. Clinical rotations are part of the course. Restricted to majors. Cannot be repeated.

PET 3211 Stress Management (2) ED EDP
PR: Admission to the Exercise Science Program. This course will focus on the health and psychological aspects of stress. A variety of topics will be addressed for self-regulating stress such as changing perceptions, time management, communication, biofeedback, exercise, and muscle relaxation.

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
COURSE DESCRIPTIONS

UNIVERSITY OF SOUTH FLORIDA 2012-2013 UNDERGRADUATE CATALOG

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) EDP
PR: Admission to the Exercise Science Program. Topics offered are determined by student's needs and interests.

PET 3940 Practicum in Fitness/Wellness (3) EDP
PR: Admission to the Exercise Science Program. This course provides the initial field experience in a community fitness/wellness center serving the general population. 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) 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 client populations.

PET 4093 Strength and Conditioning (3) 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) 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 ways to motivate, maintain, and adhere. Theoretical models will also be presented.

PET 4353 Exercise Physiology II (3) EDP
PR: APK 3120. A study of Exercise Physiology focusing on the adult. Includes specific populations such as the obese, heart patients, arthritis, elderly, and high performance athletes. Open to non-majors.

PET 4530 Applied Exercise Science (3) EDP
PR: Admission to Physical Education Program. This course will explore the application of physiological and kinesiological principles to teaching physical education. Specific changes and adaptations 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) 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) 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) 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) 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 4433 Instructional Design and Content: Physical Education Secondary (3) EDP
Physical Education majors only. This course prepares students to select, plan, conduct complex movement experiences for students K-6.

PET 4442 Instructional Design and Content: Physical Education Elementary II (3) 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 4550 Clinical Exercise Testing and Prescription (3) 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 4765 Scientific Principles of Athletic Coaching (3) EDP
Physical Education majors only. The application of principles from philosophy, psychology, sociology, and physiology to competitive athletics and coaching.

PET 4905 Independent Study: Professional Physical Education (1-4) 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) 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) 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) 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) EDP
CC. A part-time internship in middle or high school level physical education with focus on the relationship of
COURSE DESCRIPTIONS

UNIVERSITY OF SOUTH FLORIDA 2012-2013 UNDERGRADUATE CATALOG

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
C/C. 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 a focus on the implementation of appropriate content and methodology to meet the needs of secondary students.

PGY 2401C Beginning Photography (3) TA 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) TA 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) TA 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) TA 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) TA 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) TA 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 and 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 EOH
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, in the field of health.

PHC 4031 Emerging Infectious Diseases (3) PH EOH
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 4069 Biostatistics in Society (3) PH EOH
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 EOH
A survey of policies and programs in public/community health with emphasis on specific needs and problems of Florida.

PHC 4188 Public Health Emergencies in Large Populations (3) PH EOH
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 EOH
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 EOH
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 EOH
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 EOH
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 course 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 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 situations, as well as public health professionals 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 public policy.

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.

PHH 3442 Late Modern Philosophy (3) AS PHI
A survey of Western Philosophy during the Enlightenment.

PHH 4440 Continental Philosophy (3) AS PHI
A study of developments in post-Kantian European philosophy.

PHH 4600 Contemporary Philosophy 6A MW (3) AS PHI
Selected schools of twentieth century thought such as idealism, positivism, pragmatism, realism, and existentialism.

PHI 4700 American Philosophy 6A MW (3) AS PHI
Major traditions in American thought, Puritanism, the Enlightenment, Transcendentalism, Idealism, Pragmatism, and Analytic Philosophy in relation to American culture.

PHI 4820 Chinese Philosophy (3) AS PHI
A survey of Confucianism, Taoism and other aspects of Chinese thought. The course is available to both majors and non-majors and does not have laboratory sections associated with it.

PHI 1103 Critical Thinking 6A SS CASB (3) AS PHI
Critical thinking is the mind's faculty for catching its own (potential or actual) mistakes, and correcting its own misapprehensions. We will hone this faculty by practicing the critical evaluation of real-world decisions.

PHI 1401 Science and Society NS SS CANP (3) AS PHI
As consumers of scientific information, it is our social obligation to understand how scientific knowledge comes about. This course is about the process of scientific inquiry, and about scientific knowledge as the product of such inquiry.

PHI 1600 Introduction to Ethics HP SS CAHU HHCP (3) AS PHI
In order to promote reflection concerning how we should act and what kinds of people we should be, this course introduces students to ethical theories, concepts, problems, and methods.

PHI 2101 Introduction to Formal Logic 6A QM CAQR (3) AS PHI
This course is an introduction to the basic terms, concepts, and methods of formal logic.

PHI 2630 Contemporary Moral Issues SS (3) AS PHI
Open to all students. A study of contemporary moral issues concerning racism, sex, sexism, abortion, poverty, crime, war, suicide, and human rights in general.

PHI 2631 Ethics and Business SS (3) AS PHI
An application of traditional ethical theories to contemporary problems in business.

PHI 3130 Formal Logic 6A CAQR (3) AS PHI
PR: PHI 2101 or MGF 1106 or MGF 1107 or one semester of calculus. A study of predicate calculus, predicate calculus with identity, formal semantics, and elementary metalogic. Strongly recommended for philosophy majors.

PHI 3404 Philosophy of Science (3) AS PHI
How is science different from other methods of inquiry about the world? What distinguishes science from pseudoscience? From religion? How do we test scientific theories? What are the factors that lead scientists to accept a theory?

PHI 3633 Biomedical Ethics (3) AS PHI
This course will focus on the ethical issues arising from advances in medical practice, delivery of health care, and scientific research.

PHI 3636 Professional Ethics (3) AS PHI
An examination of the ethical problems that professionals will face in the complex, global society of the next few decades: confidentiality, divided loyalty, racism/sexism, etc.

PHI 3640 Environmental Ethics SS (3) AS PHI
A study of alternative theories of environmental ethics, including the application of these theories to contemporary environmental problems, such as
COURSE DESCRIPTIONS

UNIVERSITY OF SOUTH FLORIDA 2012-2013 UNDERGRADUATE CATALOG

PHI 3700 Philosophy of Religion 6A SS (3) AS PHI
Analysis of religious experience and activity and examination of principal religious ideas in light of modern philosophy.

PHI 3930 Selected Topics (1-4) AS PHI
PR: CI. Selected topics according to the needs of the student.

PHI 4073 African Philosophy MW (3) AS PHI
A descriptive and analytical study of African philosophical thought, featuring reflective comparisons of African and Western categories of thought.

PHI 4300 Theory of Knowledge 6A MW (3) AS PHI
An examination of human knowledge; its scope and limits, and an evaluation of evidence, criteria of truth, the nature of belief, conditions for meaningfulness, theories of perception, and a study of memory and sense perception in the four major fields of nature, history, personal experience, and the a priori.

PHI 4320 Philosophy of Mind 6A MW WRIN (5) AS PHI
A study of historical and current issues in philosophy of mind, including the nature and status of mind, mind/body dualism, the relationship of mind and body, the problems of other minds, the physical basis for intelligence.

PHI 4632 Feminist Ethics MW (3) AS PHI
A study of the varied approaches to moral reasoning taken by feminist ethical writers such as Wollstonecraft, Mill, Gilligan, Daly, Hoagland and others.

PHI 4670 Contemporary Ethical Theory (3) AS PHI
A survey of contemporary ethical theory, focusing both on the literature about the status of ethical theorizing--moral skepticism, moral nihilism, narrative ethics--and on specific types of theories--deontological theories, consequentialist theories, rights-based theories, virtue theories.

PHI 4800 Aesthetics 6A MW (3) AS PHI
A study of traditional and contemporary aesthetic theories with emphasis on creative process, the nature of the art work, the aesthetic response, 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 metamathematical 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, syntactical, 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 philosophically informed perspective 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.
## COURSE DESCRIPTIONS

**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 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 both the PHY 2053L and PHY 2048L courses. First semester of a two-semester sequence of general physics (mechanics, wave motion, sound, thermodynamics, geometrical and physical optics, electricity, magnetism, and wave phenomena) and laboratory for physics majors and engineering students.

**PHY 2049 General Physics II - Calculus Based NS CANP (3) AS PHY**
PR: MAC 2282 or MAC 2312, PHY 2048. Must be taken concurrently with lab and, if dropped, then dropped simultaneously. May not receive credit for both the PHY 2054L and PHY 2049L 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 PHY 2054L 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 PHY 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 2054L and PHY 2049L courses. Second semester of general physics for science students.

**PHY 3010 Modern Physics (3) 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 3822L Intermediate Laboratory (3) AS PHY**
CP: PHY 3101. Experiments in modern physics, including the areas of atomic, nuclear, solid state and electrical, and magnetic phenomena, and laboratory for physics majors and engineering students.

**PHY 4031 Great Themes in Physics 6A MW (3) AS PHY**

**PHY 4151 Computational Physics (3) AS PHY**

**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 dropped simultaneously. May not receive credit for both the PHY 2053 and PHY 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 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 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**
COURSE DESCRIPTIONS

UNIVERSITY OF SOUTH FLORIDA 2012-2013 UNDERGRADUATE CATALOG

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 and 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 2049 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 2049L. Second 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 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 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.

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 hours. S/U Only. 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 POL
Analysis of basic principles and procedures of the American governmental system with emphasis on current issues and trends.

POS 2060 The American Political Tradition SS HP (3) AS POL
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 POL
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 POL
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 POL
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 POL
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 POL
The organization, development, and functioning of American court systems and the causes and consequences of judicial behavior from an empirical perspective.

POS 3453 Political Parties and Interest Groups (3) AS POL
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 POL
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 POL
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 POL
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 POL
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 POL
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 POL
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 POL
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 POL
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 POL
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 POL
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 POL
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 POL
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 POL
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 POL
PR: Admission to Honor option. Writing of honor thesis under direction of faculty members.

POS 5159 Urban Policy Analysis (3) AS PAD
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 POL
Examines various kinds of theory used in political science for understanding political life: normative theory, empirical theory, historical theory, analytical theory, and critical theory.

POT 3013 Classical Political Theory (3) AS POL
COURSE DESCRIPTIONS

UNIVERSITY OF SOUTH FLORIDA 2012-2013 UNDERGRADUATE CATALOG

Analysis of basic ideas of Plato, Aristotle, Cicero, St. Thomas, and other leading pre-modern political philosophers.

POT 4054 Modern Political Theory (3) AS POL
Analysis of basic political ideas of Machiavelli, Hobbes, Locke, Rousseau, Burke, and other modern philosophers.

POT 4064 Contemporary Political Thought (3) AS POL
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 POL
Critical examination of the connections between politics and literature.

POT 4204 American Political Thought (3) AS POL
Examines political writings in the U.S. and responses to critical periods in history, beginning with the Founding Fathers, and culminating in recent contributions and understanding contemporary political problems and solutions.

POT 4936 Selected Topics in Political Theory (3) AS POL
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, biobehavioral, 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 3942 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 (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 4970 may count toward the major. The student, under supervision of a faculty member, will complete a thesis project.

PUP 4002 Public Policy (3) AS POL
Examines the formation and implementation of public policy in areas such as the economy, health, etc.

PUP 4203 Environmental Politics and Policy (3) AS POL
COURSE DESCRIPTIONS

UNIVERSITY OF SOUTH FLORIDA 2012-2013 UNDERGRADUATE CATALOG

Examines the politics of environmental issues, formation and implementation of environmental policy.

PUP 4323 Women and Politics 6A MW (3) AS WST
An analysis of the impact of gender on power and influence in American society, and women's changing role in the political process.

PUP 5607 Public Policy and Health Care (3) AS POL
The study of health care policy as it relates to the policy process in the American setting.

PUR 3000 Principles of Public Relations (3) AS COM
PR: MMC 2100 and MMC 3602. The underlying theory and professional practice of public relations within corporate, governmental, and non-profit organizations and its vital role in society; ethical standards of practice, and relationships of the practice to the public media; public relations problem-solving process.

PUR 3500 Public Relations Research (3) AS COM
PR: PUR 3000 and LIS 2005. The theory and practice of quantitative and qualitative research methods as applicable to the study of public relations and public relations campaigns. Emphasis is on the scope of research methods available to public relations practitioners, evaluation of data and report writing.

PUR 4100 Writing For Public Relations (3) AS COM
PR: JOU 2100 and PUR 3000. Techniques for creating effective written public relations communications to achieve organizational goals, including news releases, proposal letters, broadcast scripts, and memos. Exercises based on case study scenarios.

PUR 4101 Public Relations Design and Production (3) AS COM
PR: PUR 3000. Theoretical and practical applications of design for public relations publications. Design software. Study of visual design, page architecture, typography, copy, and illustrations. Integration of design elements in the design of different types of public relations publications.

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 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) BU QMB
PR: MAC 2233 or MAC 2241, QMB 2100. Simple linear regression and correlation; multiple regression and model building; forecasting models; analysis of variance; chi-square tests; nonparametric methods.

RCS 3030 Rehabilitation Counseling Issues in Alcoholism and Other Addictions (3) BC REH

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 5450 Fundamentals of Substance Abuse Counseling (3) BC REH

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: CI. Supervised rehabilitation studies under the direction of a faculty member.

REA 1205 Advanced Reading (3) US REA
This course focuses on a broad array of reading strategies to help students enhance comprehension skills as well as develop the fundamentals of critical
# COURSE DESCRIPTIONS

**UNIVERSITY OF SOUTH FLORIDA 2012-2013 UNDERGRADUATE CATALOG**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>REA 1305</td>
<td>Reading Lab (1-3) US REA</td>
<td></td>
<td>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.</td>
</tr>
<tr>
<td>REA 1605</td>
<td>Advanced Learning Systems (2) US REA</td>
<td></td>
<td>To explore the most recent advances in learning theory systems and then learn to apply that knowledge to understanding individual learning preferences, analyze task demands, and intentionally select effective strategies for each learning challenge.</td>
</tr>
<tr>
<td>REA 2105</td>
<td>Critical Reading and Writing 6A (3) US REA</td>
<td></td>
<td>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.</td>
</tr>
<tr>
<td>REA 2505</td>
<td>Vocabulary (3) AS ENG</td>
<td></td>
<td>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.</td>
</tr>
<tr>
<td>REL 2604</td>
<td>Strategic Learning (1) US REA</td>
<td></td>
<td>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.</td>
</tr>
<tr>
<td>REL 2930</td>
<td>Selected Topics (1-4) US REA</td>
<td></td>
<td>Topics will vary to meet the needs of students. Will not be counted toward the English major.</td>
</tr>
<tr>
<td>RED 4310</td>
<td>Reading and Learning to Read (3) ED EDE</td>
<td></td>
<td>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.</td>
</tr>
<tr>
<td>RED 4335</td>
<td>Teaching Reading in Secondary English Curriculum (3) ED EDI</td>
<td></td>
<td>Analysis of the reading process; introduction to diagnosis of reading abilities; reading and study skill strategies to increase student achievement in reading.</td>
</tr>
<tr>
<td>RED 4348</td>
<td>Literacy Development (3) EP EDE</td>
<td>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 ESO and ESE students. Instructional strategies and materials for early literacy development are introduced.</td>
<td></td>
</tr>
<tr>
<td>RED 4511</td>
<td>Linking Literacy Assessment to Instruction (3) ED EDR</td>
<td>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.</td>
<td></td>
</tr>
<tr>
<td>REL 3043</td>
<td>Real Estate Decision Making (3) BU FIN</td>
<td>PR: FIN 3403. Acquaints students with the range of knowledge required to engage in real estate decision-making in the United States. Integrates the institutional framework with which decisions are made, the elements of financial analysis, deal structuring and marketing, and the pricing, financing, and allocation of real property in the real estate markets.</td>
<td></td>
</tr>
<tr>
<td>REL 2164</td>
<td>Introduction to Religion and Ecology CAHU (3) AS REL</td>
<td></td>
<td>This course introduces students to the academic study of religion with a focus on the relationship between religion and ecology, and the developing subfield of Religious Studies concerned with this relationship.</td>
</tr>
<tr>
<td>REL 2210</td>
<td>Hebrew Bible/Old Testament (4) AS REL</td>
<td></td>
<td>An introduction to the critical study of the Hebrew Scriptures against the background of the ancient Near East, with attention to the history and religion of the Hebrew people.</td>
</tr>
<tr>
<td>REL 2240</td>
<td>Introduction to the New Testament (4) AS REL</td>
<td></td>
<td>An introduction to the critical study of the New Testament in the context of Christian beginnings in the first century C.E. This will include readings from the Apocrypha, other Gospels, and letters.</td>
</tr>
<tr>
<td>REL 2300</td>
<td>Introduction to World Religions HP SS CAGC HHCP (4) AS REL</td>
<td></td>
<td>Introduction to World Religions is designed to give students a broad and general overview of the major religious traditions of the world. Students will be exposed to the history, primary beliefs, and information necessary for a primary understanding of each of the religions studied in the course.</td>
</tr>
<tr>
<td>REL 2306</td>
<td>Contemporary World Religions HP (4) AS REL</td>
<td></td>
<td>This course will explore the unity and diversity of religious traditions in our contemporary global context in order to understand the mutual interactions between religions and cultures. 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.</td>
</tr>
<tr>
<td>REL 3000</td>
<td>Ancient Religions in Context (4) AS REL</td>
<td></td>
<td>Study of the religions in their cultural setting of the peoples of the Ancient Middle East and Mediterranean.</td>
</tr>
<tr>
<td>REL 3003</td>
<td>Introduction to Religious Studies (4) AS REL</td>
<td></td>
<td>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.</td>
</tr>
<tr>
<td>REL 3014</td>
<td>Introduction to Major Religious Texts (3) AS REL</td>
<td></td>
<td>The course provides an introduction to the study of some of the foundational texts of selected religious traditions by focusing on reading and interpretive strategies in order to understand the central beliefs and practices presented in these texts.</td>
</tr>
<tr>
<td>REL 3101</td>
<td>Religion and Popular Culture SS HP (3) AS REL</td>
<td></td>
<td>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.</td>
</tr>
<tr>
<td>REL 3111</td>
<td>The Religious Quest in Contemporary Films 6A SS HP CAHU (4) AS REL</td>
<td></td>
<td>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.</td>
</tr>
</tbody>
</table>
COURSE DESCRIPTIONS

UNIVERSITY OF SOUTH FLORIDA 2012-2013 UNDERGRADUATE CATALOG

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 social concern programs upon American life; political entanglements and the concept of church/state separation.

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 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 3146 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 3170 Religion, Ethics and Society Through Film 6A SS HP (4) 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 (4) 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 (4) 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 AF 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 AF (3) AS REL
All religions of the world came to India and all became Indian. What is this "Indianess" 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 multitudes 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 AF (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 AF (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 3391 In Search of the Goddess AF 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 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 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 (4) 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 AF (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 (4) 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 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 (4) 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 (4) 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 4193 Comparative Mysticism (4) 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 4215 Ancient Israel and the Development of the Hebrew Bible 6A HP AF 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 4217 Who Wrote the Bible (Genesis-Kings) 6A MW LW (4) 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 4218 Women and the Bible 6A HP AF 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.

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 (4) 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 (4) AS REL
COURSE DESCRIPTIONS

UNIVERSITY OF SOUTH FLORIDA 2012-2013 UNDERGRADUATE CATALOG

REL 4333 Hindu Texts and Contexts (3) AS REL
PR: REL 3330 or similar course focusing on Hinduism; consult instructor. An in-depth 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 (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 (4) 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 and for corporate videos.

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 3301 Broadcast News (4) 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 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 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. 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 CI. 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.

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 CI. 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 (4) MW AS WLE  
RUT 3111 Twentieth-Century Russian Literature in English (4) 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 4305 Communication Skills in the Science Classroom (3) ED EDN  
Reading and communication skills important in understanding scientific and science education literature and communicating findings to others.  
SCE 4310 Teaching Elementary School Science (3) ED EDE  
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.  
SCE 4313 Science for all Students (3) EP EDN  
Designed for upper division 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.  
SCE 4320 Teaching Methods in Middle Grade Science (3) ED EDN  
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.  
SCE 4330 Teaching Methods in the Secondary School-Sciences (3) ED EDN  
PR: Completion of 26 hours in approved science areas, EDS 4620 or CP, and CC. Techniques and materials of instruction in secondary school sciences.  
SCE 4863 Science, Technology, Society Interaction 6A MW (4) ED EDN  
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.  
SCE 4936 Senior Seminar in Science Education CPST (3) ED EDN  
PR: Senior standing; CR: SCE 4940. Synthesis of teacher candidate's courses in complete college program.  
SCE 4940 Internship: Science Education (1-12) ED EDN  
CR: SCE 4936. One full semester of internship in a public or private school.  
SCE 5325 Methods of Middle Grades Science Education (3) ED EDN  
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; & assessment.  
SCE 5337 Methods of Secondary Science Education (3) ED EDN  
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.  
SCE 5564 Reading and Communication in Science Education (3) ED EDN  
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 literacy are also covered.  
SCE 5937 Selected Topics in Science Education (1-4) ED EDN  
SLO 3341 Career Development for Student Athletes (3) ED EDF  
This course will prepare student athletes for the use of career development skills in transition to life after college. Students will identify career options based on interests, values and skills, research occupations, make effective decisions & learn job search techniques.  
SLS 1101 The University Experience (1-3) US DEA  
PR: Freshman only. An expanded 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.  
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.  
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 [PSY3213,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 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 crowding, privacy, territorial behaviors as they relate to 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 4341, 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 interventional 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 3101, 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 3401, 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 procedures.

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 3112C Applied Phonetics in Communication Disorders (4) 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
PR: Junior standing, SPA 3030. The etiology, pathology, and management of disorders of the outer ear, middle ear, inner ear, retrocochlear, and central auditory systems.

SPA 3470 Culture and Diversity in CSD (3) BC CSD
An introduction to intercultural communication. Exploration of cultural backgrounds and cultures of various groups highly represented in the US. Explore cultural differences which affect ASL interpreters and speech pathologists.

SPA 3653 Overview of Language Learning in Deaf Children (3) BC CSD
PR: Admission to ITT Program. CR: SPA 3653L. This course is restricted to majors only. Overview of language development of deaf children from infancy through young adulthood, including various theories of language development in the deaf and communication/language of the deaf assessment techniques, and interpreting skills relating to learning processes.

SPA 3653L Overview of Language Learning in Deaf Children Lab (1) BC CSD
PR: Admission to ITT Program. CR: SPA 3653. This course is restricted to majors only. An exploration and overview of communication modes and language used in public school settings by deaf children. Includes a study of how systems overlap and a development of flexibility in using different modes and languages, and the implications for interpreters.

SPA 3673 Introduction to Auditory Functions (3) BC CSD
PR: Admission to ITT Program. This course is restricted to majors. An overview of hearing science and speech science relating to the educational environment. This course orient the student to the variables extent in oral-aural communication among children who have hearing impairment. It addresses techniques and methods of hearing measurement and amplification of sound as well as the interpreter's role in audiological evaluation and speech language therapy.

SPA 4050 Introduction to the Clinical Process MW CPST (3) BC CSD
PR: SPA 3004 and SPA 3310. Observation and participation in speech-language pathology and audiology services provided at USF-CSD clinical laboratory. Professional and ethical issues, oral and written communication skills are stressed through clinical and practical projects.

SPA 4104 Neuroanatomy for Speech, Language and Hearing (3) BC CSD
PR: SPA 3101 (highly recommended). Students will learn neuroanatomical & neurophysiological principles, structures, and functions that subserve speech, hearing, language and cognition. A case-based approach will enable understanding of behavioral manifestations of neuropsychologies.

SPA 4201 Phonological Development and Disorders (3) BC CSD
PR: SPA 3004, SPA 3011. An examination of normal and deviant articulatory and phonological acquisition and behavior. Presentation of major theoretical orientations and the therapeutic principles based upon them.

SPA 4210 Vocal Disorders (3) BC CSD
PR: SPA 3011 and SPA 3310. A comprehensive study of the medical and physical aspects of voice disorders. Differential diagnosis, principles of therapeutic intervention, and procedures for children and adults will be stressed.

SPA 4222 Fluency Disorders (3) BC CSD
PR: SPA 4201. A comprehensive study of disfluent speech behavior. Differential diagnosis, principles of therapeutic intervention, and procedures for children and adults will be studied. Major theories and models of the development and origin of stuttering are also presented.

SPA 4250 Introduction to Speech Disorders (3) BC CSD
PR: SPA 3011. This course will provide an overview of the mechanisms involved in speech production, and will review the nature and impact of speech sound disorders, fluency disorders, voice and resonance disorders, and organic speech disorders.
COURSE DESCRIPTIONS

UNIVERSITY OF SOUTH FLORIDA 2012-2013 UNDERGRADUATE CATALOG

SPA 4257 Adult Communication Disorders (3) BC CSD
PR: Junior standing, SPA 4104.

SPA 4321 Introduction to Audiology Rehabilitation (3) BC CSD
PR: SPA 3310. 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 the field of professional counseling in the treatment of communication disorders. Based on exploration of theoretical concepts, this course demonstrates applications of therapeutic methodologies to reduce a client’s communication handicaps.

SPA 4555 Counseling of Communicatively Handicapped and Family (3) BC CSD
PR: SPA 3021 and SPA 3310. Discussion of role of counseling in the treatment of communication disorders. Based on exploration of theoretical constructs this course demonstrates applications of therapeutic methodologies to reduce a client’s 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 a Faculty member. CSD students may take the course 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 university 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, works to formalize, conduct, analyze, and report in writing a research project. The course is repeatable for a total of 10 credits. Majors only.

SPA 5120 Psychoacoustics (3) BC CSD
Relationship between physical auditory stimuli and psychological response. Human perception of intensity, loudness, frequency, and pitch. Impact of cochlear hearing loss and age on auditory perception.

SPA 5132 Audiology Instrumentation (3) BC CSD
PR: SPA 5120, SPA 6930, SPA 5506. Instruction in the use of clinical and laboratory instrumentation. Emphasis on electronic circuitry, signal generation, filtering and calibration. Hands-on experience with equipment typically used in clinical audiology research will be provided.

SPA 5133 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. 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 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 audiometric 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 interactive 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 pathologist and audiologist 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
COURSE DESCRIPTIONS

UNIVERSITY OF SOUTH FLORIDA 2012-2013 UNDERGRADUATE CATALOG

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 Cl. 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 Cl. 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 Cl. 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 Cl. Study and application of communication strategies in speaking extemporaneously and from manuscript. The course includes study of selected public addresses and various presentation forms.

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 presentation forms.

SPC 3680 Rhetorical Analysis (3) AS SPE
PR: SPC 2608 and COM 2000 each with C- or above or Cl. 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 HHC (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 scholarship and popular literature on family structure, family systems, family development, and family stories. Analysis of families in fiction and cinema.

SPC 4532 Rhetoric and Social Change 6A MW (3) AS SPE
PR: SPC 3230 or SPC 3680. This course examines how social change is symbolized and motivated in the rhetoric of institutions, campaigns, social movements and individuals.

SPC 4683 Rhetorical Analysis of Mass Media (3) AS SPE
PR: SPC 3230 or SPC 3680, SPC 2608 and COM 2000 each with a C or above or Cl. 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.

SPC 4701 Intercultural Communication (3) AS SPE
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.

SPC 4714 Communication, Culture and Community MW (3) AS SPE
Examines the relationships among culture, communication, institutions, and public and private life. Students explore the possibilities and problems of contemporary forms of community through service in a volunteer organization.

SPC 4900 Directed Readings 1-3 AS SPE
PR: Senior standing, COM 2000, a minimum GPA of 2.5, 15 hours of core requirements and 9 elective hours completed, and/or Cl. Individualized reading with professor to complement undergraduate research projects.

SPC 4903 Honors Readings (3) AS SPE
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.

SPC 4905 Undergraduate Research (1-3) AS SPE
PR: Senior standing, COM 2000, a minimum GPA of 2.5, 15 hours of core requirements and 9 elective hours
COURSE DESCRIPTIONS

UNIVERSITY OF SOUTH FLORIDA 2012-2013 UNDERGRADUATE CATALOG

completed, and/or CI. Individual investigations with faculty supervision.

SPC 4930 Selected Topics (1-3) AS SPE
PR: Senior standing, minimum GPA 2.5, 15 hours of core requirements and 9 elective hours completed, and CI. Variable topics.

SPC 4932 Senior Seminar in Communication (3) AS SPE
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.

SPC 4970 Honors Thesis (3) AS SPE
PR: Admission to Communication Honors Program. Involves individual research and preparation of an undergraduate honors thesis.

SPC 5930 Topics in Discourse (3) AS SPE
Variable topics course.

SPM 3012 Issues in Sport (3) ED EDP
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.

SPM 3256 Sport in Society: Contemporary Issues (3) ED EDP
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.

SPN 1120 Beginning Spanish I (4) AS WLE
CR: SPN 1120L. Not open to native or near-native speakers of Spanish. Development of basic skills in listening and reading comprehension, speaking and writing of Spanish.

SPN 1120L Beginning Spanish I Laboratory (1) AS WLE
CR: SPN 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.

SPN 1121 Beginning Spanish II (4) AS WLE
PR: SPN 1120 or equivalent. CR: SPN 1121L. 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.

SPN 1121L Beginning Spanish II Laboratory (1) AS WLE
CR: SPN 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.

SPN 2200 Spanish III (3) AS WLE
PR: SPN 1121 or equivalent. May NOT be taken concurrently with SPN 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.

SPN 2201 Spanish IV (3) AS WLE
PR: SPN 2200 or equivalent. May NOT be taken concurrently with SPN 2200. 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.

SPN 2240 Conversation I (3) AS WLE
PR: SPN 2201. Not open to native or near-native speakers of Spanish. For development of basic conversational skills.

SPN 2241 Conversation II (3) AS WLE
PR: SPN 2240 or equivalent. Not open to native or near-native speakers of Spanish. To improve fluency in spoken Spanish.

SPN 2270 Overseas Study (1-6) AS WLE
PR: SPN 1121. Prior departmental approval and early registration are required. An intensive study-travel program in a Spanish-speaking country.

SPN 2340 Advanced Spanish for Native Speakers I (3) AS WLE
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.

SPN 2341 Advanced Spanish for Native Speakers II (3) AS WLE
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.

SPN 3300 Advanced Spanish Grammar and Composition (3) AS WLE
PR: SPN 2201 or equivalent. Not open to native or near-native speakers of Spanish. A study of syntax, grammar and writing.

SPN 3391 Latin American Cinema (3) AP SCL
PR: SPN 2240, with a minimum grade of C- or better. Interdisciplinary & 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, & economic products. The course is taught in Spanish.

SPN 3440 Spanish for Business and International Trade I (3) AS WLE
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.

SPN 3441 Spanish for Business and International Trade II (3) AS WLE
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.

SPN 3500 Spanish Civilization (3) AS WLE
PR: SPN 2201 or equivalent. The culture and civilization of Spain. For majors and non-majors.

SPN 3520 Spanish American Civilization (3) AS WLE
PR: SPN 2201 or equivalent. Readings and discussions on the culture and civilization of Spanish America. For majors and non-majors.

SPN 4301 Expository Writing (3) AS WLE
COURSE DESCRIPTIONS

UNIVERSITY OF SOUTH FLORIDA 2012-2013 UNDERGRADUATE CATALOG

PR: SPN 3300 or SPN 2340. Practical training in contemporary Spanish structure, usage and stylistic devices.

SPN 4410 Advanced Conversation (3) AS WLE
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.

SPN 4470 Advanced Overseas Study (1-6) AS WLE

SPN 4700 Spanish Linguistics (3) AS WLE
PR: LIN 3000 or equivalent (may be taken concurrently with CI) and SPN 2201 or equivalent. An introduction to Hispanic linguistics: Phonology, morphology, syntax, and lexicography.

SPN 5525 Modern Spanish-American Civilization (3) AS WLE
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. Texts and discussion in Spanish.

SPN 5567 Modern Spanish Civilization (3) AS WLE
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 discussion in Spanish.

SPN 5577 Modern Spanish Civilization (3) AS WLE
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 discussion in Spanish.

SPT 3100 Masterpieces of Hispanic Literature (3) AS WLE
This course analyzes major literary works from Spain and Latin America. Through a selection of works from the medieval period to the present students will view the intellectual and cultural history of the Spanish speaking world.

SPT 3520 Spanish-American Civilization (3) AS WLE
Readings and discussions on the culture and civilization of Spanish America. For majors and non-majors.

SPW 3030 Introduction to Hispanic Literary Studies (3) AS WLE
PR: SPN 3300 or SPN 2340. Prose fiction, drama, poetry, and essay; techniques of literary analysis.

SPW 4100 Survey of Spanish Literature I (3) AS WLE
PR: SPW 3030 or equivalent. A study of Spanish literature from its origins through the 17th century.

SPW 4101 Survey of Spanish Literature II (3) AS WLE
PR: SPW 3030 or equivalent. A study of the later periods of Spanish literature.

SPW 4130 Survey of Spanish-American Literature I (3) AS WLE
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 gauchito 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 EDW
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. Fieldwork is required.

SSE 4334 Teaching Secondary Grades Social Science (3) ED EDW
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 EDW
PR: EDG 3604 and EDG 4620, or DPR. Examination of the major issues surrounding global and multicultural
### COURSE DESCRIPTIONS

**UNIVERSITY OF SOUTH FLORIDA 2012-2013 UNDERGRADUATE CATALOG**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Prerequisite(s)</th>
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</thead>
<tbody>
<tr>
<td>STA 3024</td>
<td>Introductory Statistics II 6A (3) AS MTH</td>
<td>PR: STA 2023 or CC. Factorials, ANCOV; multiple curvilinear regression; response surfaces; Latin squares, Split Plots, incomplete designs; distribution free methods.</td>
</tr>
<tr>
<td>STA 4102</td>
<td>Computational Methods for Applied Statistics (3) AS MTH</td>
<td>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.</td>
</tr>
<tr>
<td>STA 4222</td>
<td>Sample Survey Design (3) AS MTH</td>
<td>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.</td>
</tr>
<tr>
<td>STA 4442</td>
<td>Introduction to Probability 6A (3) AS MTH</td>
<td>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.</td>
</tr>
<tr>
<td>STA 4502</td>
<td>Nonparametric Statistical Methods (3) AS MTH</td>
<td>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.</td>
</tr>
<tr>
<td>STA 4504</td>
<td>Categorical Data Analysis (3) AS MTH</td>
<td>PR: STA 4321. Fundamental concepts and examples of categorical data analysis. Topics include description and inference using proportions and odds ratios, multi-way contingency tables, logistic regression and other generalized linear models, and log linear models.</td>
</tr>
<tr>
<td>STA 4702</td>
<td>Multivariate Statistical Methods (3) AS MTH</td>
<td>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.</td>
</tr>
<tr>
<td>STA 4852</td>
<td>Applied Time Series (3) AS MTH</td>
<td>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.</td>
</tr>
<tr>
<td>STA 4930</td>
<td>Selected Topics (1-4) AS MTH</td>
<td>PR: Depends on Topic Rotating topics designed to meet the need and interests of students.</td>
</tr>
<tr>
<td>STA 5166</td>
<td>Statistical Methods I (3) AS MTH</td>
<td>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.</td>
</tr>
</tbody>
</table>
### COURSE DESCRIPTIONS

**UNIVERSITY OF SOUTH FLORIDA 2012-2013 UNDERGRADUATE CATALOG**

<table>
<thead>
<tr>
<th>Course Code</th>
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</tr>
</thead>
<tbody>
<tr>
<td><strong>STA 5326 Mathematical Statistics I (3) AS MTH</strong></td>
<td></td>
<td>STA 5446. Sample distribution theory, point &amp; interval estimation, optimality theory, statistical decision theory, and hypothesis testing.</td>
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<tr>
<td><strong>STA 5446 Probability Theory I (3) AS MTH</strong></td>
<td></td>
<td>STA 5442 and MAA 4212 or CI. Axioms of probability, random variables in Euclidean spaces, moments and moment generating functions, modes of convergence, limit theory for sums of independent random variables.</td>
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<tr>
<td><strong>STA 5526 Non-Parametric Statistics (3) AS MTH</strong></td>
<td></td>
<td>STA 5326 or OC. Theory and methods of non-parametric statistics, order statistics, tolerance regions, and their applications.</td>
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<tr>
<td><strong>SUR 2101C Engineering Land Surveying (3) EN EGX</strong></td>
<td></td>
<td>Principles of land surveying for engineering practice. Traverses, levels, boundary surveys, route surveys, coordinate geometry, and mapping.</td>
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<tr>
<td><strong>SYA 3110 Classical Theory (3) AS SOC</strong></td>
<td>SYG 2000 or CI. The analysis of the philosophical foundations, central principles, and historical development of Sociological theory. Required for Sociology majors and minors.</td>
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<tr>
<td><strong>SYA 3120 Contemporary Theory (3) AS SOC</strong></td>
<td>SYG 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.</td>
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<tr>
<td><strong>SYA 3300 Research Methods (3) AS SOC</strong></td>
<td>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.</td>
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<tr>
<td><strong>SYA 3310 Qualitative Inquiry 6A LW (4) AS SOC</strong></td>
<td>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.</td>
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<tr>
<td><strong>SYA 4121 Queer Theory (3) AS SOC</strong></td>
<td>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 &quot;women's&quot; and &quot;men's&quot; lives. The primary goal of this course is to introduce students to queer theory and feminist theories of sexuality.</td>
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<tr>
<td><strong>SYA 4304 Sociological Research Experience (1-3) AS SOC</strong></td>
<td>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.</td>
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<tr>
<td><strong>SYA 4910 Individual Research (1-3) AS SOC</strong></td>
<td>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.</td>
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<tr>
<td><strong>SYA 4930 Topics in Sociology (3) AS SOC</strong></td>
<td>Selected specialized topics in Sociology. Topics such as AIDS in society, drugs in society, problems in education, sociology of childhood, public life, sociobiology. Content will vary by semester and by section.</td>
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<tr>
<td><strong>SYA 4935 Senior Seminar MW CPST (3) AS SOC</strong></td>
<td>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.</td>
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<tr>
<td><strong>SYA 4949 Sociological Internship (1-6) AS SOC</strong></td>
<td>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.</td>
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<tr>
<td><strong>SYD 3700 Racial and Ethnic Relations SS HP CASB (3) AS SOC</strong></td>
<td>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.</td>
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<tr>
<td><strong>SYD 4238 Immigrants to America (3) AS SOC</strong></td>
<td>SYG 2000 or SYG 2010. Examines major sociological debates in the field of immigration with an emphasis on recent immigrants to the United States.</td>
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<tr>
<td><strong>SYD 4410 Urban Sociology (3) AS SOC</strong></td>
<td>The social structure of the community in modern industrial societies. Analysis of community change.</td>
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<tr>
<td><strong>SYD 4411 Urban Life CPST (3) AS SOC</strong></td>
<td>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.</td>
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<tr>
<td><strong>SYD 4800 Gender and Society (3) AS SOC</strong></td>
<td>Historical and current issues surrounding gender in America. Emphasis on exploring the causes, meaning, and consequences of gender differences, interpersonal relationships, and institutional participation.</td>
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<tr>
<td><strong>SYG 2000 Introduction to Sociology SS CASB (3) AS SOC</strong></td>
<td>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.</td>
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<tr>
<td><strong>SYG 2010 Contemporary Social Problems SS CASB (3) AS SOC</strong></td>
<td>This course introduces students to a sociological understanding of &quot;contemporary social problems.&quot; Drawing on such concepts as culture, deviance and social institutions, we will analyze varying definitions, causes and solutions to these problems.</td>
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<tr>
<td><strong>SYG 3011 Social Problems Through Film (3) AS SOC</strong></td>
<td>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.</td>
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<tr>
<td><strong>SYG 3235 Latina Lives 6A AF LW WRIN (3) AS SOC</strong></td>
<td>SYG 2000 or SYG 2010. An exploration of the experiences of Latinas in the U.S.by examining the sociological themes of migration, work, family, oppression, activism, identity construction, spirituality, and sexuality through short stories, poetry, and scholarly research.</td>
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</tr>
</tbody>
</table>

480
COURSE DESCRIPTIONS

UNIVERSITY OF SOUTH FLORIDA 2012-2013 UNDERGRADUATE CATALOG

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
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 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 (3) AS SOC
PR: SYG 2000 or CI. Examination of the applicability of sociological concepts to the experience of disability, and of disability as a means to a better understanding of the nature of social experience.

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.

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 disenchanted, 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 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 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.
<table>
<thead>
<tr>
<th>COURSE DESCRIPTIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>UNIVERSITY OF SOUTH FLORIDA 2012-2013 UNDERGRADUATE CATALOG</td>
</tr>
<tr>
<td>TAX 4001 Concepts of Federal Income Taxation (3) BU ACC</td>
</tr>
<tr>
<td>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.</td>
</tr>
<tr>
<td>TAX 5015 Federal Taxation of Business Entities (3) BU ACC</td>
</tr>
<tr>
<td>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.</td>
</tr>
<tr>
<td>THE 2020 Introduction to Theatre (3) TA TAR</td>
</tr>
<tr>
<td>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.</td>
</tr>
<tr>
<td>THE 2252 Great Performances on Film FA CAFA HHCP (3) TA TAR</td>
</tr>
<tr>
<td>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.</td>
</tr>
<tr>
<td>THE 2305 Script Analysis (3) TA TAR</td>
</tr>
<tr>
<td>PR: Sophomore standing, THE 2020. This course teaches theatre students the techniques of close reading of dramatic texts.</td>
</tr>
<tr>
<td>THE 3110 Theatre History I MW CPST HHCP (3) TA TAR</td>
</tr>
<tr>
<td>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.</td>
</tr>
<tr>
<td>THE 3111 Theatre History II MW CPST HHCP (3) TA TAR</td>
</tr>
<tr>
<td>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.</td>
</tr>
<tr>
<td>THE 4174 New British Theatre and Drama 6A MW LW (3) TA TAR</td>
</tr>
<tr>
<td>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.</td>
</tr>
<tr>
<td>THE 4180 Theatre Origins 6A MW LW (3) TA TAR</td>
</tr>
<tr>
<td>PR: THE 3110 or THE 3111 and one of the following: THE 4320, THE 4330, THE 4360, THE 4401, THE 4434, THE 4435, THE 4442, THE 4480. 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.</td>
</tr>
<tr>
<td>THE 4254 History Of Costume (3) TA TAR</td>
</tr>
<tr>
<td>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.)</td>
</tr>
<tr>
<td>THE 4283 Architecture And Decoration (3) TA TAR</td>
</tr>
<tr>
<td>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.)</td>
</tr>
<tr>
<td>THE 4330 Shakespeare for The Theatre 6A MW LW WRIN HHCP (3) TA TAR</td>
</tr>
<tr>
<td>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.</td>
</tr>
<tr>
<td>THE 4401 American Drama 6A MW LW WRIN HHCP (3) TA TAR</td>
</tr>
<tr>
<td>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.</td>
</tr>
<tr>
<td>THE 4434 Caribbean Theatre 6A MW LW CPST (3) TA TAR</td>
</tr>
<tr>
<td>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.</td>
</tr>
<tr>
<td>THE 4480 Drama-Special Topics (3) TA TAR</td>
</tr>
<tr>
<td>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.</td>
</tr>
<tr>
<td>THE 4562 Contemporary Performance Theory 6A MW LW CPST HHCP (3) TA TAR</td>
</tr>
<tr>
<td>THE 4593 Honors Seminar (2) TA TAR</td>
</tr>
<tr>
<td>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.</td>
</tr>
<tr>
<td>THE 4594 Honors Practicum (3) TA TAR</td>
</tr>
<tr>
<td>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.</td>
</tr>
<tr>
<td>THE 4595 Honors Thesis (1-3) TA TAR</td>
</tr>
<tr>
<td>PR: THE 4594. A practical or written thesis related to the seminar and practicum and approved by the departmental honors committee.</td>
</tr>
<tr>
<td>THE 4905 Directed Studies (1-4) TA TAR</td>
</tr>
<tr>
<td>Independent studies in the various areas of Theatre. Course of study and credits must be assigned prior to registration.</td>
</tr>
<tr>
<td>THE 4930 Selected Topics In Theatre (1-8) TA TAR</td>
</tr>
<tr>
<td>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.</td>
</tr>
<tr>
<td>THE 5909 Directed Studies (1-6) TA TAR</td>
</tr>
<tr>
<td>PR: CI and CC. Independent studies in the various areas of Theatre. Course of study and credits must be assigned prior to registration.</td>
</tr>
<tr>
<td>THE 5931 Selected Topics In Theatre (1-8) TA TAR</td>
</tr>
<tr>
<td>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.</td>
</tr>
<tr>
<td>TPA 2200 Introduction to Technical Theatre I (3) TA TAR</td>
</tr>
<tr>
<td>CR: TPA 2290L or CI. An introductory course in technical production including coursework in the areas of scenic construction, theatre production/organization,</td>
</tr>
</tbody>
</table>
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) TA 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 2248 Workshop In Stage Makeup (1) TA 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) TA 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) TA 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) TA 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 SA request form, available in the Theatre Office, and enrollment with TPA 2211.

**TPA 3007 Introduction to Design I (3) TA 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) TA 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) TA 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) TA 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) TA 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) TA 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) TA 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) TA 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) TA 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) TA 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 provide a better understanding of 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) TA 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) discussions, lectures, demonstrations, individual and group work, and individual student presentations.

**TPA 4013 Design Studio III (3) TA 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) TA TAR**
PRO: 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) TA 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) TA TAR
PR: TPA 2292 or CI. The rehearsal, construction, and performance of major theatrical works. Assignments are made to develop group creativity following the student's completion of a PR request form, available in the Theatre Office, and enrollment in this course.

TPA 4298 Advanced Design Practicum (3) TA 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) TA 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) TA 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) TA 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) TA 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 creativity.

TPP 3155 Scene Study I (3) TA 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) TA 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) TA 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) TA TAR
PR: TPP 2110. A concentrated laboratory on freeing the breathing function, developing body and oral resonance, and strengthening muscles used on the formation of speech sounds.

TPP 4140 Styles Of Acting (3) TA 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) TA 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) TA 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) TA TAR
PR: TPP 3155 or TPP 3921. Preparation for professional audition; discussion of professional objectives.

TPP 4310 Directing I (3) TA 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.

TPP 4311 Directing II (3) TA TAR
PR: TPP 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.

TPP 4600 Writing For The Theatre (3) TA TAR
PR: TPP 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.

TPP 4920 Senior Workshop For Actors (3) TA TAR
PR: TPP 2500, TPP 3790, TPP 3155, or TPP 3921. A workshop in advanced vocal and movement techniques.

TPP 4923 Music Theatre Workshop (3) TA TAR
PR: TPP 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
### COURSE DESCRIPTIONS

**TSL 4251 ESOL 3 - Applying Linguistics to ESOL Teaching and Testing (3) ED EDI**  
PR: TSL 4300 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 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.

**TSL 5525 Cross-Cultural Issues in ESL (3) AS WLE**  
PR: LIN 5700. Lecture course on cultural issues in Teaching English as a Second/Foreign language.

**TSL 5940 ESOL Practicum (1-3) ED EDI**  
PR: FLE 5345 and FLE 5145. Must be taken in the semester prior to final internship. This course is restricted to Education majors and will not be repeatable for credit. A structured field experience with Limited English Proficient students.

**TTE 4003 Transportation and Society (3) EN EGX**  
This course provides a multidisciplinary introduction to transportation and its impacts on society. It explores how transportation interacts with the economy, the environment and the social and political nature of society.

**TTE 4004 Transportation Engineering I (3) EN EGX**  
PR: EGN 3321. Principles of surface transportation system development, design, and operations; administration, modal characteristics, capacities, and functional classifications; vehicle kinematics, human factors and minimum design standards; traffic flow theory and queuing, capacity and signalization; transportation planning and economics.

**TTE 4005 Transportation Engineering II (3) EN EGX**  
PR: TTE 4004. Techniques for the geometric route design of surface transportation systems; horizontal and vertical alignments. Spiral curves, superelevations and earthwork analysis; drainage, soils, and a rigid and flexible pavement design; right-of-way acquisition and Environmental Impact; site layout & design, and operation of alternate models including bus, air, rail, water, and pipeline facilities and terminals.

**TTE 5205 Traffic Systems Engineering (3) EN EGX**  
PR: TTE 4004 or equivalent. Traffic models, intersection analysis, capacity analysis, data methods collection, parking studies, volume and speed studies, freeway management, and advanced technologies.

**TTE 5501 Transportation Planning and Economics (3) EN EGX**  
PR: College Algebra & CI. Fundamentals of urban transportation planning: trip generation, trip distribution, modal split, traffic assignment. Introduction to environmental impact analysis, evaluation an choice of transportation alternatives.

**TTE 5620 Air Transportation (3) EN EGX**  
This is a course for graduate students in the College of Engineering who are interested in air transportation. It covers topics such as, airport management, air traffic flow management, air transport economics, and etc. No registration restrictions.

**URP 4050 City Planning and Community Development (3) AS POL**  
An introduction to the development, role, and components of city planning, and the political and actual policies of government in attempting to regulate or control urbanization.
URP 4052 Urban and Regional Planning (4) AS GPY
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 ISS
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 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 AF HP (4) 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 AF 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 Europe). Examines women's lives, roles, ideas, as well as origins of Western attitudes toward relation of power to gender, race and class. No prerequisites.

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
PR: WST 3015. 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-Lenist 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
### COURSE DESCRIPTIONS

#### UNIVERSITY OF SOUTH FLORIDA 2012-2013 UNDERGRADUATE CATALOG

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>ZOO 2710C</strong></td>
<td>Anatomy of Chordates (4) AS Bin</td>
<td>Anatomy of selected vertebrate types emphasizing evolutionary trends. Lec.-lab.</td>
</tr>
<tr>
<td><strong>ZOO 3205C</strong></td>
<td>Advanced Vertebrate Zoology (4) AS Bin</td>
<td>Phylogeny, taxonomy, development, physiology, macro-, microanatomy and natural history of marine/freshwater dwelling invertebrate phyla (including protists and excluding parasites and insects) covered in an integrated manner. Extensive lab work/Some fieldwork.</td>
</tr>
<tr>
<td><strong>ZOO 3407</strong></td>
<td>Biology of Sharks and Rays (3) AS Bin</td>
<td>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.</td>
</tr>
<tr>
<td><strong>ZOO 3713C</strong></td>
<td>Comparative Vertebrate Anatomy (5) AS Bin</td>
<td>Anatomy of selected vertebrate types emphasizing evolutionary trends. Lecture and Laboratory.</td>
</tr>
<tr>
<td><strong>ZOO 4377</strong></td>
<td>Functional Morphology (3) AS Bin</td>
<td>The course explores the relationship between vertebrate form and function; basic concepts of biomechanics; responses of vertebrate form to ecological and evolutionary constraints.</td>
</tr>
<tr>
<td><strong>ZOO 4454</strong></td>
<td>Fish Biology (3) AS Bin</td>
<td></td>
</tr>
<tr>
<td><strong>ZOO 4512</strong></td>
<td>Sociobiology MW (3) AS Bin</td>
<td>This course is restricted to seniors. Not for major's credit. An introduction to comparative animal behavior, with analysis of types of animal behavior, their function and evolutionary origin. Lecture only.</td>
</tr>
<tr>
<td><strong>ZOO 4694</strong></td>
<td>Developmental Biology (4) AS BCM</td>
<td></td>
</tr>
</tbody>
</table>
### COURSE DESCRIPTIONS

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Type</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>ZOO 4753C</td>
<td>Human Histology and Histopathology (4) AS BCM</td>
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<td></td>
<td>PR: PCB 3023, PCB 3063 &amp; CHM 2210 &amp; MAC 1105 or higher-level MAC course or STA 2023. CP: CHM 2211. The study of cellular and tissue organization as the basis of function in the human body. Functional morphology in normal and diseased states will be emphasized using an organ system approach.</td>
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<tr>
<td>ZOO 5456L</td>
<td>Ichthyology Lab (1) AS BIN</td>
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<td></td>
<td>CR/PR: ZOO 5456 Laboratory portion of Ichthyology relating to evolution, systematics, structure, behavior, physiology and ecology of fishes.</td>
</tr>
<tr>
<td>ZOO 5463C</td>
<td>Herpetology (4) AS BIN</td>
<td></td>
<td></td>
<td>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.</td>
</tr>
</tbody>
</table>
### INDEX

**UNIVERSITY OF SOUTH FLORIDA 2012-2013 UNDERGRADUATE CATALOG**

<table>
<thead>
<tr>
<th>Topic</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Computer Science</td>
<td>260</td>
</tr>
<tr>
<td>Confidentiality Policy</td>
<td>37</td>
</tr>
<tr>
<td>Confucius Institute</td>
<td>24</td>
</tr>
<tr>
<td>Contemporary Art Museum</td>
<td>300</td>
</tr>
<tr>
<td>Complicity</td>
<td>54</td>
</tr>
<tr>
<td>Continuous Enrollment</td>
<td>71</td>
</tr>
<tr>
<td>Correspondence Courses</td>
<td>78</td>
</tr>
<tr>
<td>Counseling Center</td>
<td>18</td>
</tr>
<tr>
<td>Course Attendance at First Class Meeting</td>
<td>32</td>
</tr>
<tr>
<td>Course Descriptions</td>
<td>348</td>
</tr>
<tr>
<td>Course Information, General</td>
<td>346</td>
</tr>
<tr>
<td>Course-Level Definition</td>
<td>345</td>
</tr>
<tr>
<td>Course Syllabus</td>
<td>32</td>
</tr>
<tr>
<td>Credit by Examination</td>
<td>63</td>
</tr>
<tr>
<td>Criminology</td>
<td>187</td>
</tr>
<tr>
<td>CROP</td>
<td>324</td>
</tr>
<tr>
<td>Cross Enrollment</td>
<td>76</td>
</tr>
<tr>
<td>Dance</td>
<td>302</td>
</tr>
<tr>
<td>Dean's List</td>
<td>46</td>
</tr>
<tr>
<td>Declaration of Major</td>
<td>38</td>
</tr>
<tr>
<td>Degrees Offered</td>
<td>ix</td>
</tr>
<tr>
<td>DegreeWorks</td>
<td>36</td>
</tr>
<tr>
<td>Dining Services (Meal Plan)</td>
<td>27</td>
</tr>
<tr>
<td>Distance Learning</td>
<td>79</td>
</tr>
<tr>
<td>Diversity and Equal Opportunity</td>
<td>3</td>
</tr>
<tr>
<td>Disruption of Academic Process</td>
<td>50</td>
</tr>
<tr>
<td>Double Undergraduate Major</td>
<td>71</td>
</tr>
<tr>
<td>Drops</td>
<td>34</td>
</tr>
<tr>
<td>Dual Enrollment</td>
<td>15</td>
</tr>
<tr>
<td>Early Admission Applicants (Freshmen)</td>
<td>8</td>
</tr>
<tr>
<td>Early Childhood Education: Pre-Kindergarten/ Primary</td>
<td>219</td>
</tr>
<tr>
<td>Economics (ECO) (Arts &amp; Sciences)</td>
<td>130</td>
</tr>
<tr>
<td>Economics (ECN) (Business)</td>
<td>202</td>
</tr>
<tr>
<td>Education, College of</td>
<td>214</td>
</tr>
<tr>
<td>Education Abroad Office</td>
<td>24</td>
</tr>
<tr>
<td>Education Requirements for Graduation (Education)</td>
<td>217</td>
</tr>
<tr>
<td>Elective Physical Education</td>
<td>236</td>
</tr>
<tr>
<td>Electrical Engineering (EEL)</td>
<td>266</td>
</tr>
<tr>
<td>Elementary Education</td>
<td>220</td>
</tr>
<tr>
<td>Engineering, College of</td>
<td>244</td>
</tr>
<tr>
<td>English (ENG)</td>
<td>132</td>
</tr>
<tr>
<td>English Education with ESOL Endorsement</td>
<td>221</td>
</tr>
<tr>
<td>ENLACE</td>
<td>324</td>
</tr>
<tr>
<td>Environmental Science and Policy (ESP)</td>
<td>136</td>
</tr>
<tr>
<td>Evaluation of Transfer Credit</td>
<td>11</td>
</tr>
<tr>
<td>Excess Hours Surcharge</td>
<td>35</td>
</tr>
<tr>
<td>Exceptional Child Education with ESOL Endorsement</td>
<td>241</td>
</tr>
<tr>
<td>“FF” Grades</td>
<td>56</td>
</tr>
<tr>
<td>Fabrication, Forgery, and Obstruction</td>
<td>53</td>
</tr>
<tr>
<td>Facilities</td>
<td>3</td>
</tr>
<tr>
<td>Fees</td>
<td>25</td>
</tr>
<tr>
<td>Fees Liability</td>
<td>27</td>
</tr>
<tr>
<td>Fees Payment</td>
<td>27</td>
</tr>
<tr>
<td>FERPA</td>
<td>37</td>
</tr>
<tr>
<td>Final Examinations</td>
<td>46</td>
</tr>
<tr>
<td>Finance (FIN)</td>
<td>204</td>
</tr>
<tr>
<td>Financial Aid</td>
<td>28</td>
</tr>
<tr>
<td>Financial Information</td>
<td>25</td>
</tr>
<tr>
<td>First Generation Access &amp; Pre-Collegiate Programs</td>
<td>323</td>
</tr>
<tr>
<td>FLEX</td>
<td>64</td>
</tr>
<tr>
<td>Florida Public Community College Cross Enrollment</td>
<td>76</td>
</tr>
<tr>
<td>Florida Residency For Tuition Purposes</td>
<td>25</td>
</tr>
<tr>
<td>Foreign Language Education with ESOL Endorsement</td>
<td>224</td>
</tr>
<tr>
<td>Foreign Language Graduation Requirement</td>
<td>64</td>
</tr>
<tr>
<td>Foreign Language Placement</td>
<td>64</td>
</tr>
<tr>
<td>Former Student Returning</td>
<td>15, 38</td>
</tr>
<tr>
<td>Foundations of Knowledge and Learning (FKL)</td>
<td>57</td>
</tr>
<tr>
<td>Fraternity &amp; Sorority Life, Office of</td>
<td>19</td>
</tr>
<tr>
<td>French (FRE)</td>
<td>176</td>
</tr>
<tr>
<td>Freshman English Requirement</td>
<td>63</td>
</tr>
<tr>
<td>Freshman Summer Institute</td>
<td>323</td>
</tr>
<tr>
<td>General Admission Policies</td>
<td>5</td>
</tr>
<tr>
<td>General Attendance</td>
<td>32</td>
</tr>
<tr>
<td>General Business (GBA)</td>
<td>200</td>
</tr>
<tr>
<td>General Course Information</td>
<td>337</td>
</tr>
<tr>
<td>General Education (FKL)</td>
<td>57</td>
</tr>
<tr>
<td>General Studies, Bachelor of</td>
<td>80</td>
</tr>
<tr>
<td>Geography (GPY)</td>
<td>138</td>
</tr>
<tr>
<td>Geology (GLY/GLS)</td>
<td>140</td>
</tr>
<tr>
<td>George Jenkins Scholars Program</td>
<td>85</td>
</tr>
<tr>
<td>German (GER)</td>
<td>177</td>
</tr>
<tr>
<td>Gerontology (GEY)</td>
<td>189</td>
</tr>
<tr>
<td>Good Standing</td>
<td>44</td>
</tr>
<tr>
<td>Gordon Rule</td>
<td>39</td>
</tr>
<tr>
<td>Grade Forgiveness Policy</td>
<td>43</td>
</tr>
<tr>
<td>Grade Point Average</td>
<td>42</td>
</tr>
<tr>
<td>Grades</td>
<td>46</td>
</tr>
<tr>
<td>“I”</td>
<td>43</td>
</tr>
<tr>
<td>“M”</td>
<td>43</td>
</tr>
<tr>
<td>“S/U”</td>
<td>43</td>
</tr>
<tr>
<td>Graduation, Application for</td>
<td>72</td>
</tr>
<tr>
<td>Graduation Requirements - University Requirements</td>
<td>63</td>
</tr>
<tr>
<td>Health Professions</td>
<td>100</td>
</tr>
<tr>
<td>Health Sciences (HLS)</td>
<td>114</td>
</tr>
<tr>
<td>Health Services, Student</td>
<td>20</td>
</tr>
<tr>
<td>History (HTY)</td>
<td>147</td>
</tr>
<tr>
<td>Holcombe Scholars Program</td>
<td>73</td>
</tr>
<tr>
<td>Honors at Graduation</td>
<td>76</td>
</tr>
<tr>
<td>Honors College</td>
<td>13, 84</td>
</tr>
<tr>
<td>Honors Research Major</td>
<td>84</td>
</tr>
<tr>
<td>Humanities and Cultural Studies</td>
<td>148</td>
</tr>
<tr>
<td>“I” Grade Policy</td>
<td>43</td>
</tr>
</tbody>
</table>
## INDEX

### UNIVERSITY OF SOUTH FLORIDA 2012-2013 UNDERGRADUATE CATALOG

<table>
<thead>
<tr>
<th>I.D. Card</th>
<th>23</th>
</tr>
</thead>
<tbody>
<tr>
<td>Immunization Policy</td>
<td>20</td>
</tr>
<tr>
<td>Independent Study</td>
<td>78</td>
</tr>
<tr>
<td>Industrial Engineering</td>
<td>269</td>
</tr>
<tr>
<td>Industrial and Management Systems Engineering</td>
<td>268</td>
</tr>
<tr>
<td>Information Studies</td>
<td>153</td>
</tr>
<tr>
<td>Interdisciplinary Classical Civilizations</td>
<td>175</td>
</tr>
<tr>
<td>Interdisciplinary Natural Sciences</td>
<td>125</td>
</tr>
<tr>
<td>Interdisciplinary Social Sciences</td>
<td>151</td>
</tr>
<tr>
<td>International Applicants</td>
<td>12</td>
</tr>
<tr>
<td>International Business</td>
<td>210</td>
</tr>
<tr>
<td>International Services, Office of</td>
<td>24</td>
</tr>
<tr>
<td>International Studies</td>
<td>143</td>
</tr>
<tr>
<td>INTO USF</td>
<td>77</td>
</tr>
<tr>
<td>Italian (ITA)</td>
<td>177</td>
</tr>
<tr>
<td>Joint Military Leadership Center</td>
<td>329</td>
</tr>
<tr>
<td>Jury Duty (Students)</td>
<td>33</td>
</tr>
<tr>
<td>Latin America and the Caribbean (ISLAC), Institute for the Study of</td>
<td>94</td>
</tr>
<tr>
<td>Leadership Studies Minor</td>
<td>329</td>
</tr>
<tr>
<td>Library System</td>
<td>81</td>
</tr>
<tr>
<td>Long Term Care Administration</td>
<td>189</td>
</tr>
<tr>
<td>&quot;M&quot; Grade Policy</td>
<td>43</td>
</tr>
<tr>
<td>Major, Academic</td>
<td>65</td>
</tr>
<tr>
<td>Management</td>
<td>207</td>
</tr>
<tr>
<td>Management Information Systems</td>
<td>205</td>
</tr>
<tr>
<td>Marketing</td>
<td>208</td>
</tr>
<tr>
<td>Marshall Student Center</td>
<td>19</td>
</tr>
<tr>
<td>Mass Communications</td>
<td>153</td>
</tr>
<tr>
<td>Mathematics (MTH)</td>
<td>158</td>
</tr>
<tr>
<td>Mathematics Education</td>
<td>225</td>
</tr>
<tr>
<td>Mechanical Engineering</td>
<td>275</td>
</tr>
<tr>
<td>Medical Technology</td>
<td>126</td>
</tr>
<tr>
<td>Medicine, College of</td>
<td></td>
</tr>
<tr>
<td>Memoriam, Degrees in</td>
<td>73</td>
</tr>
<tr>
<td>Microbiology</td>
<td>116</td>
</tr>
<tr>
<td>Military Duty</td>
<td>28</td>
</tr>
<tr>
<td>Military Science</td>
<td>331</td>
</tr>
<tr>
<td>Minimum Requirements for Admission</td>
<td>7</td>
</tr>
<tr>
<td>Minor, Academic</td>
<td>68</td>
</tr>
<tr>
<td>Misconduct in Research and Creative Endeavors</td>
<td>594</td>
</tr>
<tr>
<td>Mission and Goals</td>
<td>1</td>
</tr>
<tr>
<td>Misuse of Intellectual Property</td>
<td>54</td>
</tr>
<tr>
<td>Modern Greek (GRK)</td>
<td>176</td>
</tr>
<tr>
<td>Modern Languages</td>
<td>176</td>
</tr>
<tr>
<td>Multicultural Affairs, Office of</td>
<td>19</td>
</tr>
<tr>
<td>Multiple Submissions</td>
<td>53</td>
</tr>
<tr>
<td>Music</td>
<td>306</td>
</tr>
<tr>
<td>National Scholarships &amp; Resources for Educational Distinction, Office of</td>
<td>85</td>
</tr>
<tr>
<td>Naval Science</td>
<td>333</td>
</tr>
<tr>
<td>Naval ROTC</td>
<td>333</td>
</tr>
<tr>
<td>New Student Connections, Office of</td>
<td>19</td>
</tr>
<tr>
<td>Non-Degree Seeking Student</td>
<td>14</td>
</tr>
<tr>
<td>Nursing, College of</td>
<td>278</td>
</tr>
<tr>
<td>Ombudsman</td>
<td>20</td>
</tr>
<tr>
<td>Parking and Transportation</td>
<td>29</td>
</tr>
<tr>
<td>Payment of Accounts Due the University</td>
<td>28</td>
</tr>
<tr>
<td>Philosophy (PHI)</td>
<td>160</td>
</tr>
<tr>
<td>Physical Education and Exercise Science</td>
<td>236</td>
</tr>
<tr>
<td>Physics (PHY/PHS)</td>
<td>162</td>
</tr>
<tr>
<td>Plagiarism</td>
<td>53</td>
</tr>
<tr>
<td>Police</td>
<td>iv</td>
</tr>
<tr>
<td>Political Science (POL)</td>
<td>144</td>
</tr>
<tr>
<td>Posthumous Degrees</td>
<td>73</td>
</tr>
<tr>
<td>Psychological &amp; Social Foundations of Education</td>
<td>240</td>
</tr>
<tr>
<td>Psychology (PSY)</td>
<td>165</td>
</tr>
<tr>
<td>Public Media</td>
<td>82</td>
</tr>
<tr>
<td>Public Administration</td>
<td>146</td>
</tr>
<tr>
<td>Public Health, College of</td>
<td>283</td>
</tr>
<tr>
<td>Qualifications for Internship Experience (Education)</td>
<td>216</td>
</tr>
<tr>
<td>Readmission (FRS)</td>
<td>15</td>
</tr>
<tr>
<td>Refund of Tuition</td>
<td>28</td>
</tr>
<tr>
<td>Registrar, Office of the</td>
<td>31</td>
</tr>
<tr>
<td>Registration</td>
<td>31</td>
</tr>
<tr>
<td>Registration for Admitted Degree-Seeking Students</td>
<td>31</td>
</tr>
<tr>
<td>Rehabilitation and Mental Health Counseling</td>
<td>190</td>
</tr>
<tr>
<td>Release of Student Information</td>
<td>36</td>
</tr>
<tr>
<td>Religious Days</td>
<td>34</td>
</tr>
<tr>
<td>Religious Studies</td>
<td>167</td>
</tr>
<tr>
<td>Repeat Course Surcharges</td>
<td>35</td>
</tr>
<tr>
<td>Repeat Coursework</td>
<td>71</td>
</tr>
<tr>
<td>Requirements for B.A. Degrees, College of The Arts</td>
<td>293</td>
</tr>
<tr>
<td>Requirements for B.A./B.S. Degree, College of Business</td>
<td>199</td>
</tr>
<tr>
<td>Research and Innovation, Office of</td>
<td>83</td>
</tr>
<tr>
<td>Residency, Academic</td>
<td>64</td>
</tr>
<tr>
<td>Residency, Tuition</td>
<td>25</td>
</tr>
<tr>
<td>ROTC Programs:</td>
<td></td>
</tr>
<tr>
<td>Air Force</td>
<td>330</td>
</tr>
<tr>
<td>Army</td>
<td>331</td>
</tr>
<tr>
<td>Naval</td>
<td>333</td>
</tr>
<tr>
<td>Russian (RUS)</td>
<td>178</td>
</tr>
<tr>
<td>S/U Grade System</td>
<td>43</td>
</tr>
<tr>
<td>Scholarships, Academic</td>
<td>29</td>
</tr>
<tr>
<td>Science Education</td>
<td>227</td>
</tr>
<tr>
<td>Second Baccalaureate Degree (Transfer Students)</td>
<td>72</td>
</tr>
<tr>
<td>Second Undergraduate Major</td>
<td>72</td>
</tr>
<tr>
<td>Secondary Education</td>
<td>221</td>
</tr>
<tr>
<td>Semester System</td>
<td>38</td>
</tr>
<tr>
<td>Senior Citizen Tuition Waiver</td>
<td>16</td>
</tr>
</tbody>
</table>

491
INDEX

SERIously Traumatized Students, Academic Process for 33
Social Science Education 232
Social Work 191
Sociology 169
Spanish (SPA) 178
Special Education 242
Sports Medicine 275
Standards and Student Conduct Procedures 22
Statewide Course Numbering System 346
Statistics 160
Statute of Limitations 47
Student Academic Grievance Procedures 47
Student Affairs and Student Services 19
Student Affairs, Division of 18
Student Government 19
Student Health Services 20
Student Information, Release of 36
Student Involvement, Center for 18
Student Leadership and Civic Engagement, Center for 18
Student Ombudsman 20
Student Organizations in the (Arts and Sciences) 180
Student Organizations in the (Business) 213
Student Organizations and Activities (Education) 243
Student Records Policy 36
Student Rights and Responsibilities, Office of 20
Student Support Services Program 324
Student's Choice of Catalog 71
Students with Disability Services 4
Study Abroad 24
Summer Enrollment Requirement 63
SunCoast Area Teacher Training Program (SCATT) 217

T
Teacher Education Programs 102
Testing Services 76
The Arts, College of 289
Theatre 317
Transcript Information 36
Transfer Applicants, Lower-Level 10
Transfer Applicants, Undergraduate 9
Transfer Applicants, Upper-Level 10
Transfer Credit, Evaluation of 11
Transfer of Credit to USF 38
Transient Students 13, 76
TRansitional Advising Center (TRAC) 322
Tuition, Release of 28
Tutoring and Learning Services 323
Two Degrees 72

U
Undergraduate Research 336
Undergraduate Studies 336
University Bookstores 23
University College 79
Upward Bound 325
USF I.D. Card 23
USF Library System 81
USF World 24

W
Veterans Affairs (VA) Benefits 30
Victim Advocacy and Violence Prevention 3
Violations & Sanctions for Undergraduate Students 55
Washington Center Internship Program 79
Withdrawal 34
Women's and Gender Studies 172
World Languages 173
Writing Center 323

Z
Zimmerman Advertising (Business) 209