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Coordinating Editor
Lorene Hall-Jennings

Technical Coordinator
Robert Chase Patterson
Welcome to the University of South Florida, home of the Bulls!

I invite you to explore our preeminent academic programs, which have been thoughtfully developed to prepare you for a lifetime of personal discovery and professional achievement. Across our 14 colleges, undergraduates can choose from more than 180 majors and concentrations, from Biomedical Engineering to Global Business, from Cybersecurity to Marine Biology, from Architecture to Dance, and much more.

At USF, you will learn from some of the world’s most accomplished scholars, scientists and inventors. You will also gain valuable new perspectives from fellow students who come from different communities, countries and cultures. We have always been proud to be a place that is open and inclusive to individuals from many backgrounds. Our diversity makes us stronger.

You also can take advantage of outstanding practical experiences to prepare you for rewarding careers. We partner with many organizations and top international corporation, including Nielsen, Raymond James, TechData and Jabil Circuit Corp., and more, to provide outstanding internship opportunities.

We also strongly encourage our undergraduates to participate in research. USF is a leader in innovation and invention, and there are many benefits to getting involved — especially the excitement of making new discoveries and sharing them with the world.

Beyond the classroom and laboratory, you will find a complete university experience while also enjoying all that our beautiful region has to offer. Recreational, cultural, athletic and social opportunities abound throughout the community and at USF. With more than 600 student organizations on campus, there is something for virtually every interest.

At USF, we believe that every student will succeed if given the opportunity to do so. That commitment has helped us eliminate the graduation rate gap regardless of race, ethnicity or socioeconomic status — a rare achievement in higher education. USF is a recognized national leader in student success for many reasons, including providing a campus culture where your well-being is our priority.

As you explore our university, please let us know how we can be of assistance. Your success is our success, and we look forward to seeing all that you will achieve!

GO BULLS!

Judy Genshaft
USF System President
Campus Visit Experience

The USF Campus Visit experience includes the following:

**A Tour of Campus** - Student-led by our Green & Gold Guides, the tour will give you an up-close view of our top-rated academic facilities, a spacious suite-style residence hall, delicious dining options, student support offices, high-tech recreation center, and other points of interest. In addition, you will hear from current USF students about what life is really like on our dynamic campus!

**An Information Session** - Presented by an admissions professional, the session will provide an overview of the university, admissions requirements, financial aid, dining services, residential life, scholarships and campus life.

Campus visits are offered Monday-Friday at 10:00 a.m. and 2:00 p.m. and last approximately 2.5 hours. Tours also are offered on most Saturdays at 10:00 a.m. during the academic year (September through April). Individual and family tours and groups are available.

Please visit the Office of Admissions for more information and to schedule a visit at [http://www.usf.edu/admissions/freshmen/visit-campus/campus-tour/campus-visit-experience.aspx](http://www.usf.edu/admissions/freshmen/visit-campus/campus-tour/campus-visit-experience.aspx)

A Virtual Campus Tour is available at [https://www.usf.edu/about-usf/tour.aspx](https://www.usf.edu/about-usf/tour.aspx)
In 2018, the Florida Board of Governors designated USF as a Preeminent State Research University, placing USF in the most elite category among the state’s 12 public universities.

For additional Administrative areas, visit https://www.usf.edu/about-usf/administrative-units.aspx

Mission, Vision, Values, and Goals

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

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

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

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

For more information, https://www.usf.edu/about-usf/mission-vision.aspx
## Campus Directory

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<td>USF Government Relations</td>
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<td>Undergraduate Studies</td>
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## Academic Programs

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<td>Student-Athlete Enrichment Center (SAEC)</td>
<td><a href="http://gousfbulls.com/sports/2008/6/12/1480022.aspx">http://gousfbulls.com/sports/2008/6/12/1480022.aspx</a></td>
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### colleges

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<td>Cell Biology, Microbiology and Molecular Biology</td>
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<td>College of Marine Studies</td>
<td><a href="http://www.marine.usf.edu/">http://www.marine.usf.edu/</a></td>
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<td>College of Medicine</td>
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<td>Cardiovascular Sciences</td>
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<td>Molecular Medicine</td>
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<td>Neurosurgery and Brain Repair</td>
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<td>Obstetrics &amp; Gynecology</td>
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<td>Oncologic Sciences</td>
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<td>BSAS (Bachelor of Science in Applied Science)</td>
<td><a href="https://www.usf.edu/undergrad/programs/bsas/index.aspx">https://www.usf.edu/undergrad/programs/bsas/index.aspx</a></td>
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<td>BGS (Bachelor of General Studies)</td>
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<td>Global Citizens Project</td>
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<td>Office of Academic Advocacy</td>
<td><a href="https://www.usf.edu/undergrad/academic-advocacy/">https://www.usf.edu/undergrad/academic-advocacy/</a></td>
<td>813-974-2645</td>
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<td>Office of Undergraduate Research</td>
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<td>Transfer Student Success</td>
<td><a href="https://www.usf.edu/undergrad/transfer-student-success/">https://www.usf.edu/undergrad/transfer-student-success/</a></td>
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<td><a href="https://child-care-preschool.brighthorizons.com/fl/tampa/usf">https://child-care-preschool.brighthorizons.com/fl/tampa/usf</a></td>
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<td>Continuing Education</td>
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<td>813-974-5550</td>
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<td>Copy Services</td>
<td><a href="http://www.usf.edu/it/class-prep/printing.aspx">http://www.usf.edu/it/class-prep/printing.aspx</a></td>
<td>813-974-1222</td>
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<td>Dining Services</td>
<td><a href="https://usf.campusdish.com/">https://usf.campusdish.com/</a></td>
<td>813-974-7785</td>
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<td>Education Abroad</td>
<td><a href="https://educationabroad.global.usf.edu/">https://educationabroad.global.usf.edu/</a></td>
<td>813-974-4314</td>
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<td>English Language Program</td>
<td><a href="http://www.usf.edu/intousf/elp/">http://www.usf.edu/intousf/elp/</a></td>
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<td>General Counsel</td>
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<td>Housing And Residence Life</td>
<td><a href="http://www.usf.edu/student-affairs/housing/">http://www.usf.edu/student-affairs/housing/</a></td>
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<td>Information Technology Services</td>
<td><a href="http://www.usf.edu/it/">http://www.usf.edu/it/</a></td>
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<td>Library (Tampa)</td>
<td><a href="http://www.lib.usf.edu/">http://www.lib.usf.edu/</a></td>
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<td>Library (FMHI Research)</td>
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<td>Library (Shimberg Health Sciences)</td>
<td><a href="http://health.usf.edu/shimberg-library/">http://health.usf.edu/shimberg-library/</a></td>
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<td>Meal Plan</td>
<td><a href="https://usf.campusdish.com/Commerce/Catalog/MealPlanCategory.aspx?category=All_Products_7858&amp;lid=7858&amp;start1=0">https://usf.campusdish.com/Commerce/Catalog/MealPlanCategory.aspx?category=All_Products_7858&amp;lid=7858&amp;start1=0</a></td>
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<td>Religious and Spiritual Life</td>
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<td>SMART Lab</td>
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<td>Student Affairs and Student Success</td>
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<td>Testing Services</td>
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<td>Tobacco and Smoke Free Campus</td>
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<td>USF Card</td>
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<td>USF Credit Union</td>
<td><a href="https://www.usffcu.com/">https://www.usffcu.com/</a></td>
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Other USF Catalogs

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- Medical Program - https://health.usf.edu/medicine/mdprogram/eduprograms.htm
- Pharmacy Program - https://health.usf.edu/pharmacy/program-overview.htm
- Doctor of Physical Therapy - https://health.usf.edu/medicine/dpt/

USF St. Petersburg
- USF St. Petersburg Undergraduate Catalog - http://www.usfsp.edu/catalog/
- USF St. Petersburg Graduate Catalog - http://www.usfsp.edu/catalog/

USF Sarasota-Manatee
- USF Sarasota-Manatee Undergraduate Catalog - http://usfsm.edu/catalog/undergraduate/
- USF Sarasota-Manatee Graduate Catalog - http://usfsm.edu/catalog/graduate/
## Important Dates & Deadlines

Dates are tentative and subject to change.

See [https://www.usf.edu/registrar/calendars/](https://www.usf.edu/registrar/calendars/) for current and additional Important Dates and Deadlines.
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Welcome to USF

Founded in 1956, the University of South Florida is a multi-campus system and is one of the nation's top public research universities and one of only 40 public research universities nationwide with very high research activity that is designated as community-engaged by the Carnegie Foundation for the Advancement of Teaching.

USF is designated as a “Preeminent State Research University” by the Florida Board of Governors. Preeminence represents the culmination of USF’s many years of careful strategic planning, focused allocation of resources and determination of thousands of students, faculty and staff. The designation comes with millions of dollars in additional funding, carries prestige that will benefit USF in many key areas, including new student and faculty recruitment, and will enhance the economic development of the Tampa Bay region.

The University of South Florida System is comprised of three separately accredited institutions, USF, USF St. Petersburg, and USF Sarasota-Manatee. USF includes the main campus in Tampa, its College of Marine Science in St. Petersburg, USF Health, and is the doctoral granting, research-intensive member of the USF System. Serving more than 50,000 students from over 145 different countries. USF’s fall 2018 Freshman academic profile posts an average SAT score of 1283 and a high school GPA of 4.09. USF was awarded a chapter of Phi Beta Kappa Society, the oldest and most prestigious national honor organization in America.

The current president of the USF System is Judy Genshaft, who has served in the position since July 2000.

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 USF

UNIVERSITY OF SOUTH FLORIDA 2019-20 UNDERGRADUATE CATALOG

About the USF System

The University of South Florida is a large, public 4-year university offering undergraduate, graduate, specialist and doctoral level degrees. The USF System includes three, separately accredited institutions: USF; USF St. Petersburg; and USF Sarasota-Manatee. Serving more than 50,000 students, USF is at the forefront of cutting-edge research of medicine, science with a total research expenditure of $568 million in 2016-2017.

USF is comprised of 14 colleges offering more than 180 undergraduate majors and concentrations—with some of the most populated colleges being USF Health, Arts & Sciences, Business and Engineering. We also have numerous degree programs at the graduate, specialist and doctoral levels, including the doctor of medicine. USF prides itself on being a high-impact global research university dedicated to student success.

The USF System was formed to bring its three institutions together, so that collectively and collaboratively they could serve the region and beyond in optimal ways, resulting in a stronger presence and a distinctiveness that provides an unstoppable competitive differentiation. In addition to being a strong and unified voice for higher education, the USF System seeks to find and capitalize on synergies and economies of scale among its institutions that are of benefit to students, faculty, staff, alumni, and communities.

At the heart of the USF System is a vibrant, diverse, and engaged student body. With over 240 degree programs at the undergraduate, graduate, specialty and doctoral levels, including the doctor of medicine, the USF System offers a dynamic learning environment that inspires innovation and creativity and is focused on student success. More than 2,000 distinguished scholars, researchers and expert teachers, nearly all holding PhDs or the highest degrees in their fields, make up the faculty.


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; and a listener-supported radio station.

In addition, projects to enhance the campus pedestrian walkways, bikeways, and lighting have been implemented for use and enjoyment. Future planned projects include 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 residence hall, Juniper-Poplar Hall. New housing continues to be added on campus, along with an on-campus grocery store.

Campuses/Locations

University of South Florida
4202 E. Fowler Avenue
Tampa, FL 33620 813-974-2011
https://www.usf.edu/

USF St. Petersburg
140 7th Ave. South
St. Petersburg, FL 33701
727 873-7748
http://www.usfsp.edu/visit/

University of South Florida Sarasota-Manatee
8350 N. Tamiami Trail
Sarasota, FL 34243
941-359-4200
http://usfsm.edu/admissions/campus-experience/index.aspx
Campus Map

For more maps, see: https://www.usf.edu/administrative-services/parking/maps/
Accreditation

The University of South Florida (USF) is accredited by the Southern Association of Colleges and Schools Commission on Colleges to award associate, baccalaureate, master's, specialist and doctorate degrees.

Contact the Southern Association of Colleges and Schools 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.

Normal inquiries about the institution, such as admission requirements, financial aid, educational programs, etc., should be addressed directly to the institution and not to the Commission's Office.

For more information, visit http://www.usf.edu/about-usf/accreditation.aspx.

In addition to SACSCOC accreditation, which applies to the institution, many academic programs are accredited by specialized accreditors that focus on specific academic disciplines.

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 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.

University Libraries

USF Library
4202 E. Fowler Ave. LIB122
Tampa FL 33620
813-974-1611
https://www.lib.usf.edu/

The USF Tampa Library offers access to an extensive selection of print and electronic resources, including books, maps, e-journal, e-books, and countless databases. There is also a collection of audio/visual materials including videos, CDs, DVDs, and even LPs.

The Tampa Library is a comfortable and inviting place for students and faculty to meet, study, conduct research, and complete group assignments. Library facilities provide wireless access, electrical connections for laptops, individual and group study seating and instructional labs. The Learning Commons (LC) on the first floor has over 140 computer workstations, as well as the Library Services Desk, a state-of-the-art Digital Media Commons, the Digital Heritage and Humanities Collections and the IT Helpdesk. The Academic Success Center, on the second floor, includes the SMART Lab, with an additional 354 computer workstations and the Writing Studio. Other Library partners include the Office for Undergraduate Research, Division of Health Professions Advising and a Starbucks Café.

Students and faculty also have access to specialized research assistance and information literacy instruction from our librarians. Assistance is available from research and reference librarians either by appointment, on-line via our website, by phone, or in a classroom setting.
In addition to the Tampa Library, there are two affiliated regional libraries and two special libraries. At USF Tampa are the Shimberg Health Sciences Library ([https://health.usf.edu/Shimberg-library/](https://health.usf.edu/Shimberg-library/)), serving the needs of USF Health consisting of the Colleges of Medicine, Nursing, Pharmacy, Physical Therapy, and Public Health; and the Louis de la Parte Florida Mental Health Institute (FMHI) Research Library ([https://lib.usf.edu/fmhi/](https://lib.usf.edu/fmhi/)) serving the College of Behavioral and Community Sciences. In addition, there is the University of South Florida St. Petersburg, home to the Nelson Poynter Memorial Library ([https://www.usfsp.edu](https://www.usfsp.edu)), and the University of South Florida Sarasota-Manatee campus ([http://www.usfsm.edu](http://www.usfsm.edu)).

**Intercollegiate Athletics**

University of South Florida Athletics Department  
4202 E. Fowler Ave., ATH 100  
Tampa, FL 33620  
813-974-2125  
[https://gousfbulls.com/](https://gousfbulls.com/)

The University of South Florida System Athletic Department is committed to providing all student-athletes with opportunities to receive a world-class education, win championships, and develop into the leaders of tomorrow while embracing our partnerships within the Tampa Bay community. Programs include:

**Men's Sports**
- Baseball
- Basketball
- Cross Country
- Football
- Golf
- Soccer
- Tennis
- Track & Field
- Volleyball

**Women's Sports**
- Basketball
- Cross Country
- Golf
- Sailing
- Soccer
- Softball
- Tennis
- Track & Field
- Volleyball

**Points of Pride**
- USF Athletics serves nearly 500 student-athletes that train and compete in the athletic district located on the east end of the Tampa campus.
- USF fields 19 men’s and women’s varsity teams competing in 11 sports, 18 at the NCAA Division I level in the American Athletic Conference.
- USF has won 16 conference titles since joining the American Athletic Conference in 2013, including at least three in each of the last three seasons.
- USF has claimed 113 conference titles since it began intercollegiate competition in 1965.
- Nine USF programs reached national post-season competition in the 2017-18 season.
- Six USF programs were ranked in the Top 25 nationally in 2017-18, including the football program, which recently posted a program record string of 20 straight weeks ranked in the top 25.
- The USF football team has been among the winningest programs nationally over the past four seasons, posting a pair of 10-plus win seasons, three straight seasons appearing in the national Top 25 rankings and four straight bowl game appearances.
- USF Athletics posted a combined annual grade-point average over 3.0 for the third straight year in 2017-18 and is currently in the midst of a program record string of seven straight semesters with a combined GPA over 3.0.
- USF Athletics has posted a Graduation Success Rate of 80 percent or better for five straight years.
ABOUT USF

USF has seen more than 180 student-athletes earn their degree in the last two years.

USF student-athletes, coaches and staff have contributed more than 9,000 hours to community service over the past two years.

The Lee Roy Selmon Athletic Center is the hub of USF Athletics and includes state-of-the art space for academic support services, life skills training, mentoring and team-building.

USF has invested more than $70 million in recent years in renovating and maintaining some of the top athletic facilities in the nation and is currently raising funds for the construction of a new $40 million USF Football Center.

USF student support is a big part of the Bulls’ athletics success with an average of nearly 8,000 students per game attending home football games in 2018 and student attendance increasing across the program.

USF Alumni

Gibbons Alumni Center
University of South Florida
4202 E. Fowler Avenue, ALC100
Tampa, Florida 33620-5455
813-974-2100
800-299-BULL (2855)
alumni@usf.edu
https://www.usfalumni.org/s/861/02-alumni/start.aspx

The USF Alumni Association is a self-funded, nonprofit organization comprised of former students and friends of the University of South Florida. We help alumni stay connected and provide meaningful ways for USF Bulls to support USF and student success. Additionally, the USF Alumni Association supports several student programs, including: Student Alumni Association (SAA) - the largest student organization on campus; USF Ambassadors - student representatives for the university; and, Order of the Golden Brahman - USF’s newest student service and leadership organization. There are more than 335,000 USF graduates worldwide who are critical to USF in achieving its goals.

Advancement/USF Foundation

The USF Foundation connects the University with donors who want to make a difference by providing private, philanthropic support to promote student success, academic initiatives, research and other strategic priorities of the University of South Florida System. The USF Foundation is governed by an elected board whose members serve as advocates for the university, its colleges, campuses, and units. Each volunteer board member is guided by a mission to promote private support, advocate for the university, and manage the university's endowment.

For more information, visit https://foundation.usf.edu/.

USF Policies

The Office of General Council website has helpful links to University of South Florida System regulations and University policies. We hope that you will find these resources beneficial and we actively seek your input regarding additional content. For more information, visit http://regulationspolicies.usf.edu/.

Undergraduate Academic Integrity Policy Statement

USF System Regulation 3.027 - Academic Integrity of Students
http://regulationspolicies.usf.edu/regulations/pdfs/regulation-usf3.027.pdf

Academic integrity is the foundation of the University of South Florida System’s (USF System) 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 academic sanction at any USF System member institution shall affect and be applied to the academic status of the student throughout the USF System, unless otherwise determined by the independently accredited institution.
The following actions are prohibited:

- Discrimination and/or harassment by any USF System employee or student against any individual(s) or group(s) within the USF System.
- Discrimination and/or harassment by any USF System employee or student while assigned to duties or academic programs of the USF System (regardless of their location) against any individual(s) or group(s) that is not an employee or student, including any USF System program invitee(s).
- Discrimination and/or harassment by any vendor or individual external to the USF System against any USF System employee(s), student(s) or program invitee(s) during the transaction of business with the USF System, during any program or activity coordinated through the USF System, and/or while on USF System premises.
- Retaliation by any USF System employee or student against any individual(s) or group(s) who, in good faith, has made an allegation of discrimination and/or harassment, or who has testified, assisted, or participated in any way in any investigation, proceeding, or hearing conducted under this policy or any federal or state law.
- Knowingly making false accusations or allegations of discrimination and/or harassment or retaliation, or knowingly making false statements regarding alleged discrimination and harassment or retaliation in any investigation, proceeding, or hearing conducted under this Policy or any federal or state law.


Diversity and Equal Opportunity Policy

USF System Policy 0-007 Diversity and Equal Opportunity: Discrimination and Harassment
http://regulationspolicies.usf.edu/policies-and-procedures/pdfs/policy-0-007.pdf

The University of South Florida System (USF System) community is most successful when it is based on respect and fair treatment of all people. The USF System strives to provide a work and study environment for faculty, staff and students that is free of discrimination and sexual harassment, including sexual violence. As part of the effort to maintain an environment that is comfortable for all people, the USF System establishes this Policy. Sexual harassment, including sexual violence, is prohibited within the USF System, and complaints of such conduct are to be filed with one of the two designated offices within the USF System: specifically, the Office of Diversity, Inclusion and Equal Opportunity (DIEO) or the Office of Student Rights and Responsibilities (OSRR). The designated office will review such complaints and provide appropriate response including counseling, mediation (in limited circumstances), and/or referral for disciplinary action, up to and including termination from employment and/or expulsion from the USF System.

The University of South Florida System (USF System) is a diverse community that values and expects respect and fair treatment of all people. The USF System strives to provide a work and study environment for faculty, staff and students that is free from discrimination and harassment on the basis of race, color, marital status, sex, religion, national origin, disability, age, or genetic information, as provided by law. The USF System protects its faculty, staff, and students from discrimination and harassment based on sexual orientation, as well as gender identity and expression. The USF System is also committed to the employment and advancement of qualified veterans with disabilities and veterans protected under the Vietnam Era Veterans’ Readjustment Assistance Act, as amended (VEVRAA). As part of the effort to maintain an environment that is comfortable for all people and to ensure consistency with state and federal laws, the USF System establishes this policy.

Discrimination, harassment and retaliation are prohibited within the USF System, and complaints of such conduct are to be filed with one of the two designated offices within the USF System, specifically the Office of Diversity, Inclusion & Equal Opportunity (https://www.usf.edu/diversity/) or the Office of Student Rights and Responsibilities (https://www.usf.edu/student-affairs/student-rights-responsibilities/index.aspx). The designated office will review such complaints and provide appropriate response including counseling, mediation, and/or referral for disciplinary action, up to and including termination from employment and/or expulsion from the USF System.

In addition, DEO and OSRR will, as part of their internal processes, report any conduct that may be criminal in nature, such as bias-motivated crimes, to the appropriate law enforcement entities as set forth in section [IV.B]

Additionally, discriminatory conduct in the form of sexual misconduct/sexual harassment is also prohibited. (Please see USF System Policy 0-004, Sexual Misconduct/Sexual Harassment (Including Battery).
http://regulationspolicies.usf.edu/policies-and-procedures/pdfs/policy-0-007.pdf)

The following actions are prohibited:

1. Discrimination and/or harassment by any USF System employee or student against any individual(s) or group(s) within the USF System.
2. Discrimination and/or harassment by any USF System employee or student while assigned to duties or academic programs of the USF System (regardless of their location) against any individual(s) or group(s) that is not an employee or student, including any USF System program invitee(s).
3. Discrimination and/or harassment by any vendor or individual external to the USF System against any USF System employee(s), student(s) or program invitee(s) during the transaction of business with the USF System, during any program or activity coordinated through the USF System, and/or while on USF System premises.
4. Retaliation by any USF System employee or student against any individual(s) or group(s) who, in good faith, has made any allegation of discrimination and/or harassment, or who has testified, assisted, or participated in any way in any investigation, proceeding, or hearing conducted under this policy or any federal or state law.
5. Knowingly making false accusations or allegations of discrimination and/or harassment or retaliation, or knowingly making false statements regarding alleged discrimination and harassment or retaliation in any investigation, proceeding, or hearing conducted under this Policy or any federal or state law.
Any person who believes they have been subjected to discrimination can file a complaint with the USF System Office of Diversity, Inclusion & Equal Opportunity, John & Grace Allen Building (ALN) 172 on the Tampa Campus. The telephone number is (813) 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.

For more information on the Office of Diversity, Inclusion, and Equal Opportunity, please visit their website at: https://www.usf.edu/diversity/.

Title IX Policy

The University of South Florida System (USF System) community is most successful when it is based on respect and fair treatment of all people. The USF System strives to provide a work and study environment for faculty, staff and students that is free of discrimination and sexual harassment, including sexual violence. As part of the effort to maintain an environment that is comfortable for all people, the USF System establishes this Policy.

Sexual harassment, including sexual violence, is prohibited within the USF System, and complaints of such conduct are to be filed with the Office of Diversity, Inclusion and Equal Opportunity. The designated office will review such complaints and provide appropriate response including counseling, mediation (in limited circumstances), and/or referral for disciplinary action, up to and including termination from employment and/or expulsion from the USF System.

Pursuant to Title IX, the University does not discriminate on the basis of sex in educational programs or activities that it operates. Such protection extends to both employees and students. Any questions or inquiries concerning the application of Title IX may be referred to the Title IX Coordinator, the Title IX Senior Deputy Coordinator, to any of the University’s Title IX Deputy Coordinators, or to the Office for Civil Rights (OCR). The most up-to-date information on the University’s Title IX Coordinator and Deputy Coordinators can be found in the webpage for the Office of Diversity, Inclusion and Equal Opportunity, located at https://www.usf.edu/diversity/.

The Title IX Coordinator is:

Cecil Howard, Associate Vice President
Chief Diversity Officer & Title IX Coordinator
4202 E. Fowler Avenue, ALN 172
Tampa, Florida 33620
(813) 974-4373
howardc@usf.edu

Discrimination and harassment on the basis of race, color, marital status, sex, religion, national origin, disability, age, genetic information, gender identity and expression, sexual orientation, or veteran status are also prohibited. (Please see USF System Policy Number 0-007, Diversity & Equal Opportunity: Discrimination & Harassment http://regulationspolicies.usf.edu/policies-and-procedures/pdfs/policy-0-007.pdf).

When appropriate, the University will take steps to prevent the recurrence of harassment, including sexual violence, and to correct any discriminatory effects of harassment on the complainant and others.

Students with Disabilities


Students with Disabilities Services
813.974.4309 (Office)
sa-sds-information@usf.edu
https://www.usf.edu/student-affairs/student-disabilities-services/

In accordance with Section 504 of the Rehabilitation Act, the Americans with Disabilities Act and the ADA Amendments Act, Students with Disabilities Services (SDS) is dedicated to providing reasonable accommodations to students with disabilities to ensure full participation in all aspects of USF campus and student life. Reasonable accommodations are provided for students with temporary or permanent disabilities.
The student initiates the process by identifying herself/himself to the SDS office and completing an application. Students must provide documentation of a disability. Please visit our website for guidelines and verification forms. All documentation is reviewed by the professional staff of SDS and, when necessary, reviewed by consultants with expertise in specific disability areas. In some cases, students are requested to provide more documentation than originally submitted. In cases where documentation is not available, please consult with SDS. Once approved, the SDS coordinator and the student will sign an accommodation plan outlining academic accommodations.

Each semester the student is responsible for giving each of her/his professors a memorandum of accommodation. Accommodations may include, but are not limited to, note taking services, extended test time, books in electronic/audio format, and assistive technology. The accommodations should maintain the academic integrity of the course and never alter the level of ability or mastery the individual is required to demonstrate.

**Drug-Free Workplace/Drug-Free Schools Policy Statement**

**USF System Policy 0-610 Drug-Free Workplace**


The unlawful manufacture, distribution, possession or use of alcohol or a controlled substance is prohibited on property of or in connection with any of the activities of the USF System. No employee/student is to report to work/class while under the influence of illegal drugs or alcohol. Any employee or student determined to have violated this policy shall be subject to disciplinary action for misconduct. Violation of this policy by an employee/student will be reason for evaluation/treatment for a drug/alcohol use disorder or for disciplinary action up to and including termination/expulsion in accordance with applicable collective bargaining agreements, policies and procedures, or referral for prosecution consistent with local, state, and federal law.

**Tobacco and Smoke Free Campus**

**USF System Policy, 6-026, Tobacco and Smoke Free Policy**

[http://regulationspolicies.usf.edu/policies-and-procedures/pdfs/policy-6-026.pdf](http://regulationspolicies.usf.edu/policies-and-procedures/pdfs/policy-6-026.pdf)

University of South Florida Tampa (“USF”) is committed to providing a safe and healthy learning, living, and working environment for the campus community. This Policy intends to reduce the health risks related to smoking, tobacco and related products, as well as to reduce the smoking and tobacco-related waste from USF.

**STATEMENT OF POLICY**

Smoking, tobacco use, and use of related products is prohibited on all property owned, leased or operated by USF. This includes, but is not limited to, all indoor and outdoor areas and properties. Additionally, no smoking and/or tobacco products will be sold or advertised on the USF Tampa campus. This Policy applies to all faculty, staff, students, vendors and visitors.

The President or designee may allow smoking in specific designated areas of campus for clinical treatment purposes, including smoking cessation programs, or research-related purposes.

**ENFORCEMENT**

The success of this Policy relies on the thoughtfulness, consideration and cooperation of smokers and nonsmokers, not only to comply, but to encourage others to comply with the Policy. Any student who repeatedly refuses to abide by this Policy may be considered in violation of the Student Code of Conduct and will be handled accordingly. Repeat violations by any faculty or staff member will be handled through normal University processes.

All attendees at public events, such as conferences, meetings, public lectures, social and cultural events using USF facilities and grounds are required to abide by this Policy. Organizers of such events are responsible both for communicating and enforcing this Policy with attendees.

Conducting violations may also result in disciplinary action as deemed appropriate by University officials.
As an open public university, the USF System does not prohibit the legal consumption of alcohol on its campuses. We recognize that as part of a well-planned and structured program, the serving and consumption of alcohol may take place. Therefore, the intent of this Policy is to establish guidelines and procedures for the legal and responsible use of alcohol at USF System campus events. The use of alcoholic beverages by members of the USF System community is at all times subject to the applicable alcoholic beverages laws and ordinances of the State of Florida, and the city and county of each USF System Institution. No person may sell, furnish or give alcohol to any person under the age of twenty-one (21).

For the full policy, see [http://regulationspolicies.usf.edu/policies-and-procedures/pdfs/policy-30-023.pdf](http://regulationspolicies.usf.edu/policies-and-procedures/pdfs/policy-30-023.pdf).
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Office of Admissions

Office of Admissions
Student Services Building (SVC) 1036
(813) 974-3350
admissions@usf.edu
https://www.usf.edu/admissions/

The Office of Admissions assists prospective students with learning about the opportunities available to them at the University of South Florida. The Office is responsible for processing applications for admission for undergraduate students -- first time in college (FTIC), transfer, and former students returning (FSR), including international students. 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 the potential for success at USF; however, achieving 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, date of application completion, the pattern of courses completed, educational objectives, past conduct, school recommendations, personal recommendations, and portfolios. Preference for admission in any term will be given to those applicants whose credentials indicate the greatest promise of academic success.

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

Admissions Application

The Office of Admissions accepts either application below. A $30 (in U.S. currency) nonrefundable application fee is required. Only one application needs to be submitted from either:

- The online USF Undergraduate admissions application found on the Office of Admissions web page at https://www.usf.edu/admissions
- Coalition Application found at http://www.coalitionforcollegeaccess.org

When to Apply

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

SUMMER/FALL SEMESTER START

- July 1 - Summer/Fall Application opens
- November 1 – Preferred admissions deadline
- January 1 – Priority deadline for financial aid consideration
- January 15 – Application completion deadline for students to qualify for admissions scholarships
- March 1 – Final application deadline
- May 1 - Admissions deposit deadline
SPRING SEMESTER START

- February 1 - Spring Application opens
- October 1 – Preferred admissions deadline
- November 15 – Application completion deadline for students to qualify for admissions scholarships

Who Should Apply

The University of South Florida offers a variety of programs to meet the diverse needs of the student body. You can apply if you are any one of the following:

- A High School Senior or First Time in College (FTIC) seeking a Bachelor’s degree.
- An Undergraduate student with some college credits seeking a Bachelor’s degree.
- A non-U.S. citizen seeking an Undergraduate or Graduate degree.
- An Undergraduate or Graduate student interested in Biomedical Science, Medicine, Nursing, Public Health, Pharmacy or Physical Therapy.
- Seeking courses and programs for training, professional advancement, certification or personal growth.

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). Any previously enrolled student will be required to pay the $30 application fee. Documents submitted requesting a waiver of the $30 application fee are considered by the Dean of Admissions based upon the determination that the payment of this fee creates a documented severe financial hardship and serves as a deterrent from submitting the 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 was not reflected on the initial application must be reported in writing to the Office of 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.

Important Dates & Deadlines

For current deadlines, please visit Office of Admissions at https://www.usf.edu/admissions/freshmen/admission-information/requirements-deadlines.aspx.

Apply early! Admissions decisions are made on a rolling basis beginning in October as applications are completed and all supporting documents are received. You may apply as early as August of your senior year. Freshman applications are considered for the Spring, Summer and Fall semesters.

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SPRING SEMESTER START

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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 Office of Admissions. (See “Minimum Requirements for Admission” for information concerning required documentation). Official transcripts from all previous institutions are required.

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 confirm eligibility for admission before a second registration will be permitted.

Conditional Offers of Admission

Some applicants may be offered admission to the University of South Florida with the condition that they enroll in an alternate term, campus and/or program that differs from that requested on the application for admission, or that they meet the conditions outlined in the acceptance offer. For example, a freshman applicant may be offered admission to the summer or spring term due to enrollment limits and/or admission criteria. Continued enrollment is contingent on meeting all conditions of admission.

USF System Change of Institution Process

The University of South Florida System consists of three separately accredited institutions - USF, USF St. Petersburg, and USF Sarasota-Manatee. Each institution has unique policies as well as unique admission, degree and residency requirements. A student wishing to change from one USF institution to another after enrollment should refer to the procedures listed on the Undergraduate Studies website at http://ugs.usf.edu/system/change-of-institution/

Admission Denials

Any applicant - freshman or transfer - who does not meet minimum admission requirements and is denied admission may submit an appeal to the Faculty Committee on Student Admissions in writing within 30 days of notification for reconsideration of the admissions decision.

Undergraduate applicants - freshman or transfer - who are denied admission as a degree-seeking student may not enroll as a non-degree seeking student.

Receipt of final official credentials that fail to substantiate eligibility will result in rescission of admission and denial of continued enrollment in subsequent terms.

An application for admission or a residency declaration 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.

See Florida Board of Governors (BOG) 6.001 General Admissions https://www.flbog.edu/documents_regulations/regulations/6_001_General_Admissions.pdf
Required Proof of Immunity

All students must have proof of immunity 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.

All students must complete and sign the USF Medical History & Immunization History Form or provide supporting documentation and electronic signature on their student OASIS account.

For students that applied to USF using an international address, a Tuberculosis screening is also required. For details, see http://regulationspolicies.usf.edu/policies-and-procedures/pdfs/policy-33-003.pdf.

For detailed information regarding USF's Immunization Policy and Requirements, see http://regulationspolicies.usf.edu/policies-and-procedures/pdfs/policy-33-002.pdf.

For questions, contact 813-974-4056 or immunization@shs.usf.edu.

Required Orientation

Office of Orientation
John & Grace Allen Building (ALN) 102
(813) 974-3060
myorientation@usf.edu
https://www.usf.edu/orientation

Prior to beginning classes, all new undergraduate students (first year and transfer) are required to participate in Orientation at the USF campus 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. It is in the best interest of the student to schedule their Orientation as early as possible. Also, it is important to remember that a student will not be permitted to attend USF without having attended an Orientation session prior to the first day of classes. Orientation sessions are tailored for First Year, Transfer, and International Students.

Residency for Tuition Purposes

Florida BOG 7.005 Residency for Tuition Purposes
https://www.flbog.edu/documents_regulations/regulations/7_005ResidencyforTuitionPurposesSept2015.pdf

Residency refers to whether you are an in-state Florida resident or an out-of-state resident, and this classification determines your rate of tuition. Most importantly, living in or attending school in Florida will not, in itself, establish legal residence for tuition purposes.

When you apply to the university, your initial residency classification is determined by the Office of Admissions. Failure to provide sufficient documentation in the residency section of the admissions application will result in a non-Florida or out-of-state residency classification for tuition purposes.

You have until the last day of classes in your first term to request that the Office of Admissions re-evaluate your residency status by providing sufficient documentation. However, if your residency status is listed as non-Florida at the time that classes begin, you will be assessed out-of-state tuition charges.

Once you have completed your first term at USF, you can request a reclassification of your residency status from the Office of the Registrar (https://www.usf.edu/registrar/resources).
Limited Access Programs

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

USF, with approval of the Board of Governors and the Articulation Coordinating Committee, has established the following undergraduate programs as limited access:

- Mass Communications in the College of Arts and Sciences
- Social Work in the College of Behavioral and Community Sciences
- All degree programs in the College of Business
- Exercise Science and Physical Education in the College of Education
- All degree programs in the College of Nursing
- B.F.A. and B.A. in Dance in the College of the Arts

The admissions requirements for these degree programs may be found with other program information in appropriate sections of this catalog.

Florida College System

High school graduates planning to start their college education at a Florida College System institution should confer with the guidance counselor and ask that their academic program be planned with the assistance of the USF Undergraduate Catalog that is available at [http://www.ugs.usf.edu/catalogs.php](http://www.ugs.usf.edu/catalogs.php). 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 student's upper-level programs on a par with their native USF counterparts.

Foreign Language Entrance Requirement

Foreign Language Entrance Requirement (FLENT)

USF Regulation 3.018
http://regulationspolicies.usf.edu/regulations/pdfs/regulation-usf3.018.pdf

FL BOG Regulation 6.002

FL BOG Regulation 6.004
http://www.flbog.edu/documents_regulations/regulations/6.004%20Transfer%20Student%20Admission_FINAL.pdf

All applicants admitted to the State University System (SUS) are expected to have demonstrated competency of foreign language or American Sign Language equivalent to the second high school level or higher. A limited number of students not meeting the high school foreign language requirement may be admitted; however, these students must fulfill the foreign language requirement prior to completion of the baccalaureate degree.

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://ugs.usf.edu/credit-by-exam/](http://ugs.usf.edu/credit-by-exam/) 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).


7. Courses completed through the Florida Distance Learning Consortium. See https://www.floridashines.org/.

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

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

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

Minimum Requirements for Admission

Freshman Applicants

BOG Regulation 6.002

USF System Regulation 3.018
http://regulationspolicies.usf.edu/regulations/pdfs/regulation-usf3.018.pdf

Any freshman applicant who meets minimum admission requirements as stated in Florida Board of Governors Regulation 6.002 is encouraged to submit an application. Each state university reserves the right under Florida BOG regulation to establish admission criteria that exceeds Florida BOG minimums.

To be considered for admission, freshman (First Time in College) applicants must submit:

- USF Application for Admission
- Non-refundable $30 application fee
- Official high school transcript
- Official GED scores if applicable
- SAT or ACT scores
- IELTS or TOEFL scores, 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 based on other appropriate evidence of ability to do successful academic work at USF.

The University sets admission requirements found on the Undergraduate Admissions web homepage. Please refer to https://www.usf.edu/admissions/freshman/ for the current admission requirements. Admission to the University is selective; therefore, meeting requirements does not guarantee admission.
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The institution reserves the right to request the testing agency to validate any applicant’s admission materials including transcripts and test scores such as SAT, ACT, TOEFL, PTE-A or IELTS used in the admission process if, in the judgment of University officials, there is reason to warrant this validation. See http://regulationspolicies.usf.edu/regulations/pdfs/regulation-usf3.018.pdf.

1. A diploma from a public or regionally accredited high school or the state-approved General Education Development (GED) diploma is required for freshman admission. Early Admission Program students are exempted from this 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:
   a. Four (4) units of English (three of the four must incorporate substantial writing requirements);
   b. Four (4) units of mathematics (Algebra I and above);
   c. Three (3) units of natural sciences (two of the three must incorporate substantial laboratory requirements);
   d. Three (3) units of social sciences (history, civics, political science, economics, sociology, psychology, and geography);
   e. Two (2) units of the same foreign language; and
   f. Two (2) additional units of academic electives.

3. USF System institutions recalculate high school grade point average for admission that enhances credits for accelerated coursework with a grade of C or higher by adding one quality point for grades earned in Advanced Placement courses, International Baccalaureate courses, AICE (Advanced International Certificate of Education) and dual enrollment courses; and one-half quality point for any grade earned in certain courses designated as honors or advanced by school districts or independent schools.

4. Official admission test scores from the College Board SAT administered by the Educational Testing Services or scores from the ACT exam must be submitted. When scores are provided from multiple administrations of an admission test, the combination of the highest individual subtest scores are used to determine eligibility for admission.

5. As a minimum, each freshman applicant must meet one of the following:
   a. At least a “B” average (3.0 on a 4.0 scale) as computed by the USF System in required high school academic units in English, mathematics, natural science, social science and foreign language; or
   b. A combination of high school GPA and admission test scores equivalent to a 2.5 (on a 4.0 scale) as computed by the USF System in the required high school academic units in English, mathematics, natural science, social science and foreign language, and scores on the College Board SAT of 500 on Evidence-Based Reading and Writing, 500 on Mathematics or comparable sub-scores on the ACT of 18 on Reading and 19 on Mathematics as indicated by the Florida Board of Governors.

6. Applicants with a GED diploma must have an average score of 580 or higher (58 on the old GED exam) with a minimum score of 500 on each of the five tests (50 on the old GED exam), and a total score of at least 1070 on the SAT (Critical Reading, Evidence-Based Reading and Writing, and Mathematics) or 21 on the ACT.

7. Any freshman applicant who does not graduate from a regionally accredited secondary school, including those applicants who are home schooled or those who have earned a GED, must provide official results from the SAT Subject examinations in mathematics (Level II-C), foreign language, science and social science. This requirement may be waived if the student provides an official secondary or postsecondary transcript or official AP or CLEP examination results demonstrating college readiness in each of the four core subject areas above. For the purposes of the admission decision, the USF System will use the SAT Evidence-Based Reading and Writing scores or ACT Reading and English sub-scores if the applicant has completed no senior-level or postsecondary coursework in English. Please refer to the International Applicants section for additional requirements for international applicants.
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, or by December 1 for Spring 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.

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 (Public High School, Private High School, or Home School)

Early Admission (Public High School, Private High School, or Home School)

USF System Regulation 3.018 http://regulationspolicies.usf.edu/regulations/pdfs/regulation-usf3.018.pdf

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. More information is found at https://www.usf.edu/honors/prospective-students/early-admission.aspx.

Prospective applicants:
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. Typically have a 1360 on the Mathematics and Critical Reading sections of the SAT, with no less than 580 on either section; or a 29 on the ACT with no less than a score of 29 on English, 21 on the Reading, and 21 on Mathematics; and a 3.8 weighed high school grade point average (computed by USF); and a TOEFL score, if applicable;
3. Meet regular USF admission criteria for degree-seeking undergraduate students;
4. An interview may be requested by the Early Admissions Coordinator.

Dual Enrollment (Public High School, Private High School, or 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. Dual enrollment students are non-degree-seeking students at USF and may only take courses which are creditable toward their high school diploma. For more information, see https://www.usf.edu/honors/accelerated-programs/dual-enrollment.aspx.

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 550 SAT EBRW (Evidence-Based Reading & Writing) and 550 on SAT 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
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i. Provide courses and the number of credits necessary to complete a high school diploma/program from the school counselor or principal on school stationery or district form;

ii. Need college-level courses that are not offered at the local community or state college.

Early Admission (for High School Seniors who wish to have degree-seeking status at USF) applicants must meet Honors College eligibility criteria (https://www.usf.edu/honors/prospective-students/application.aspx). Participation in the Early Admission program is 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. Students interested in these opportunities should contact the Honors College at https://www.usf.edu/honors/prospective-students/early-admission.aspx or Dual Enrollment at https://www.usf.edu/admissions/freshmen/admission-information/requirements-deadlines.aspx.

Second Bachelor's Degree Applicants

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 their 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.

A second bachelor's degree applicant is any degree-seeking undergraduate applicant who has earned a bachelor's degree at USF or another institution and wishes to earn an additional bachelor's degree.

For more information on requirements, please see the information on the Office of Admission's website at https://www.usf.edu/admissions/transfer/admission-information/requirements-deadlines.aspx.

Readmission (Former Student Returning)

http://regulationspolicies.usf.edu/regulations/pdfs/regulation-usf3.018.pdf (see item 8).

A former student returning (FSR) is any degree-seeking undergraduate student who has not earned their bachelor's degree, who has not been enrolled at USF in any of the last three terms, and who wishes to re-enroll in the University. In order to be considered for readmission, a former student should file a new application for admission with the Office of Admissions (https://www.usf.edu/admissions/transfer/) 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 - https://www.usf.edu/education/about-us/advising.aspx.

Applicants seeking to be classified as a Florida resident must complete the residency declaration and residency status will be reassessed.

Undergraduate students returning to seek a baccalaureate degree must:

1. Be in good academic standing and eligible to return to the USF System institution as well as the last institution attended as a degree-seeking student. For all college-level academic courses attempted at any institution since last enrolling in the USF System institution, the applicant's transfer GPA must meet or exceed the GPA required of new transfer students at the time of readmission.

2. Former 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 appropriate Office of Undergraduate Admissions. Acceptability of transfer credits toward completion of degree programs will be determined by the college of the student's major.

3. The Academic Regulations Committees (ARC) have the Power to Approve (PTA) petitions for undergraduate or non-degree seeking students that fail to maintain a 2.0 GPA and are Academically Dismissed (AD) from a USF System institution. (Refer to the Academic Probation and Academic Dismissal Policies in the Undergraduate Catalog.) Academic Regulations Committees also may approve the readmission of students who qualify for Academic Renewal to have portions of their academic record not counted in the determination of the GPA for graduation purposes. (Refer to the Academic Renewal Policy in the Undergraduate Catalog.)

Transient students and non-degree-seeking students are not considered former students returning. 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).
Credit by Examination

The University of South Florida System awards credit-by-examination based on the minimum guidelines as established by the Articulation Coordinating Committee (ACC) available on [https://www.floridashines.org/](http://www.floridashines.org/) pursuant to Florida Statute 1007.27 ([http://www.leg.state.fl.us/statutes/index.cfm?App_mode=Display_Statute&Search_String=&URL=1000-1099/1007/Sections/1007.27.html](http://www.leg.state.fl.us/statutes/index.cfm?App_mode=Display_Statute&Search_String=&URL=1000-1099/1007/Sections/1007.27.html)), and approved by the State Board of Education and Board of Governors.

Students may receive up to 45 semester hours of credit towards the baccalaureate degree upon successful completion of any of the examinations listed below. For more information, see USF System Policy 10-017 ([http://regulationspolicies.usf.edu/policies-and-procedures/pdfs/policy-10-017.pdf](http://regulationspolicies.usf.edu/policies-and-procedures/pdfs/policy-10-017.pdf)). Performance levels necessary to achieve credit have been established and are listed under each exam. Credit earned through one examination program may not be duplicated by another examination or course.

- Advanced Placement (AP)
- Advanced International Certificate of Education Program (AICE)
- Caribbean Advanced Proficiency Exams (CAPE)
- College Level Examination Program (CLEP)
- DSST (formerly DANTES Subject Standardized Tests)
- Excelsior (EXCEL)
- International Baccalaureate (IB)

The University of South Florida evaluates all credits earned and grades received for admitted undergraduate students in college-level courses at regionally accredited institutions. Credits earned at international institutions or during study abroad are also evaluated for transfer. Please contact the Office of Admissions ([https://www.usf.edu/admissions/](https://www.usf.edu/admissions/)) or International Studies for admission requirements ([https://www.usf.edu/admissions/international/admission-information/undergraduate/](https://www.usf.edu/admissions/international/admission-information/undergraduate/)).

USF Testing Services accommodates USF and non-USF customers, and delivers more than 1,000 exams per month. For more information, see [https://www.usf.edu/testing-services/](https://www.usf.edu/testing-services/).


Undergraduate Transfer Applicants

Undergraduate Transfer Applicants

**BOG Regulation 6.004 - Admission of Undergraduate, Degree-Seeking Transfer Students**
[http://www.flbog.edu/documents_regulations/regulations/6.004%20Transfer%20Student%20Admission_FINAL.pdf](http://www.flbog.edu/documents_regulations/regulations/6.004%20Transfer%20Student%20Admission_FINAL.pdf)

**USF System Regulation 3.018**
[http://regulationspolicies.usf.edu/regulations/pdfs/regulation-usf3.018.pdf](http://regulationspolicies.usf.edu/regulations/pdfs/regulation-usf3.018.pdf) see item 4c)

For more information, please visit the Office of Admissions website at: [https://www.usf.edu/admissions/transfer/](https://www.usf.edu/admissions/transfer/)

Applicants with fewer than 60 transferrable semester credits are considered lower-level transfers; upper-level transfers are those with 60 or more transferrable 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.

1. Transfer applicants must be in good standing and eligible to reenroll at the last regionally accredited institution attended as a degree-seeking student.
2. All transfer applicants are required to meet satisfactory academic progress criteria as determined by the U.S. Department of Education. USF System institutions have specific transfer admission requirements which may include a completion of specific percentage of courses attempted. An excessive number of course withdrawals as well as failed and repeated courses could negatively affect admissibility as a transfer to the USF System.
3. Transfer applicants must submit official transcripts from all post-secondary colleges and schools attended.
4. Grade point averages for the purpose of admission will be computed based on grades earned in courses acceptable for transfer credit; incomplete grades will be computed as failures.

5. Transfer applicants must have completed two credits of one foreign language or American Sign Language in high school or the equivalent to eight to ten semester hours in the undergraduate institution(s) attended or demonstrate equivalent foreign language competence as described in BOG Regulation 6.004. Transfers are exempt from this admissions requirement if they received an Associate in Arts degree prior to September 1, 1989, or if prior to August 1, 1989, they enrolled in a program of study leading to an associate degree from a Florida public college or university and have maintained continuous enrollment until they are admitted to a university. Continuous enrollment will be established if the student enrolls in at least one term in each twelve-month period beginning with the student’s first enrollment in a community college and continuing until the student enrolls in a university.

Transfer of Credit to USF

USF will accept credits only from 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 (https://www.usf.edu/admissions/). The Office of the Registrar creates transfer course equivalencies and maintains transfer course catalogs. From these resources, the College of the student’s major will determine which courses are applicable toward a specific degree and will assign equivalent courses.

For students completing courses at a Florida State College or University, please review the Statewide Course Numbering System for course equivalencies (https://flscns.fldoe.org/).

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 (https://www.usf.edu/admissions/). Also, all transfer students should refer to other entries about undergraduate transfers in the Admissions section of this catalog.

Additional information on the State University System of Florida and Board of Governors policies for transfer students is available at http://www.flbog.edu/forstudents/ati/transfer.php.

Articulation Agreement

6A-10.024 Articulation Between and Among Universities, Community Colleges, and School Districts
https://www.systemacademics.usf.edu/articulation-agreements/documents/6a-10.024.pdf

It is the intent of the Board of Governors and the State Board of Education to facilitate articulation and seamless integration of the education system by agreeing to the provisions of this rule. The authority to adopt and amend this rule aligns with the Constitutional power given the Board of Governors for the state university system and the statutory authority given the State Board of Education for the district school boards, the community college system, and the Department of Education.

State universities and community colleges shall publish with precision and clarity in their official catalogs the admission, course, and prerequisite requirements of the institution, each unit of the institution, each program, and each specialization.

The agreement defines and establishes the Associate of Arts degree from a Florida public state or community 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

- A.A. graduates will be granted admission to a university within the SUS, but not necessarily to the university or program of choice.
- A.A. graduates will have the same opportunity to enroll in a university limited access program as the native university student.
- 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.
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.

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.

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.

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.

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 at (813) 974-4051 or ugs-dean@usf.edu.

Award of Credit for Online Coursework

USF System Policy 10-071 Award of Credit for Online Coursework
http://regulationspolicies.usf.edu/policies-and-procedures/pdfs/policy-10-071.pdf

BOG Regulation 6.020
http://www.flbog.edu/documents_regulations/regulations/6_020_CollegeCredit.pdf

Undergraduate students who are admitted to the University of South Florida System (“USF System”) and who have completed online college-level courses prior to initial enrollment in undergraduate education may request that the University evaluate that work to determine if credit might be awarded. Award of credit for that work must meet the following conditions:

1. USF System faculty have determined the online course content and learning outcomes to be comparable to a course offered at the institution;
2. Online courses meet the quality and accreditation standards intended for a transfer course; and
3. The subject area faculty, have determined that the online course is relevant to the student’s intended program of study.

Students wishing to have such online coursework evaluated for the purpose of receiving credit should inform Office of Undergraduate Studies, or the Chief Academic Officer at their regional institutions, upon being admitted but prior to enrolling in classes at the university. If credit for the online coursework was awarded by another institution of higher education the student must submit an official transcript reflecting the award of credit and the transferability of that work will be determined with the same processes and criteria for other transferred courses, including coursework recommended for credit by the American Council on Education (ACE).

For more information regarding the process to have coursework evaluated and/or further information on the policy, please visit the USF System Policy 10-071 (http://regulationspolicies.usf.edu/policies-and-procedures/pdfs/policy-10-071.pdf).
Award of Credit for Military Training

BOG Regulation 6.013

USF Regulation 6.0025
http://regulationspolicies.usf.edu/regulations/pdfs/regulation-usf6.0025.pdf

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

Credit that was previously evaluated and awarded by another college-degree granting institution and that is appropriate to the transfer student's major will be accepted, subject to institution transfer limitations. Credit awarded for military education and training will be noted on the transcript and documentation of the credit equivalency evaluation will be maintained. Credit awarded for military education and training will not count in the excess hours fee per BOG Regulation 7.003 (http://www.flbog.edu/documents_regulations/regulations/7-003Fees-fines-penaltiesregulationFINAL11-08-12.pdf). Priority course registration will be provided for each veteran of the United States Armed Forces who is receiving the GI Bill.

Former Student Returning

The Office of Admissions will evaluate the acceptability of transfer of credits taken at regionally-accredited institutions since last enrolled at USF. The college of the student's major will determine which courses are applicable for the student's 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.

A Returning Student is any degree-seeking undergraduate student who:

- Has not earned his/her degree,
- Has not been enrolled at USF in any of the last three consecutive terms, and
- Wishes to re-enroll in the University. Otherwise, you are considered a continuing student and can still register.

A college graduate seeking to earn an additional bachelor's degree is considered a second bachelor's degree student.

Non-degree seeking students are not considered Returning Students and are not required to submit an application through the Office of Admissions at https://www.usf.edu/admissions/.

Lower-Level Transfer Applicants (12 to 59 transferable semester credits)

USF System Regulation 3.018
http://regulationspolicies.usf.edu/regulations/pdfs/regulation-usf3.018.pdf see item 4d

To be considered for admission, transfer applicants with fewer than 60 transferable semester credits must submit a USF Admissions Application. Also, the applicant must submit a $30 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 12-59 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. Transfer applicants with less than 30 semester hours of transferable college credit (lower level) must meet all Freshman Admission requirements (see Sec. (4)(b)5.).
2. Applicants with 30 or more and 59 or less transferrable semester hours must have successfully completed (C or higher) at least one English Composition course and one college level mathematics course that consists of three (3) semester credit hours. High school transcripts are required to demonstrate completion of the foreign language admission requirement.

3. Lower level transfer students who do not meet the foreign language requirements must satisfy the foreign language requirement prior to admission to the upper division and may not exceed 5 percent of the number of freshmen enrolled in the prior academic year.

4. Please refer to the International Applicants section for additional requirements for international applicants.

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

USF System Regulation 3.018
http://regulationspolicies.usf.edu/regulations/pdfs/regulation-usf3.018.pdf see item 4e

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

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

For further information regarding Upper-Level Transfer admissions requirements, visit https://usfweb2.usf.edu/admissions/

1. Admission as a junior to the upper division of the USF System will be granted within curricular, space and fiscal limitations to an Associate in Arts degree graduate of a state-approved Florida public college or university or a transfer applicant from an SUS institution who has received the AA degree/certificate. The admission of AA degree transfers from Florida public colleges and universities is governed by the Florida Articulation Agreement (BOG Resolution adopting Rule 6A-10.024 Articulation Between and Among Universities, Community Colleges, and School Districts).

2. Undergraduate transfer students who have not earned the AA degree/certificate from a public community/junior college or state university in Florida or who have attended another college after receipt of the AA degree/certificate from a public community/junior college or state university in Florida must have an overall 2.0 grade point average on a 4.0 system in all college level courses attempted and acceptable to transfer.

3. Associate in Arts degree holders who are not exempt from the foreign language requirement and all other upper level transfer students admitted without meeting the foreign language admission requirement (see Sec. (4)(d)2.) must satisfy the foreign language requirement prior to graduation.

Evaluation of Transfer Credit

USF System Regulation 3.018
http://regulationspolicies.usf.edu/regulations/pdfs/regulation-usf3.018.pdf

1. The receipt and evaluation of transfer credit is the responsibility of the Office of Admissions (https://www.usf.edu/admissions/). The Office of 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 consider 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 if the course is offered at USF.

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 and the office of Undergraduate Studies for review by the faculty and the process make take some time, during which no credit will be awarded until the department review is completed. Only those courses that appear to match courses currently offered by the university will be reviewed for transfer.

4. USF reserves the right to deny credit for specific courses. USF does not award transfer credit from institutions that it determines to be occupational, college preparatory/remedial, or vocational in nature, or for other reasons as determined by the Office of Articulation, 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 education 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 actively participating in the State Common Course Numbering System. 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 42 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 sent with a certified English translation, with associated costs to be paid by the student.
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.

**General Education Transfer Credits**

For the 2019-2020 academic year, transfer students will be under the Enhanced General Education curriculum. Please reference Enhanced General Education in the Undergraduate Catalog on USF Enhanced General Education requirements.

For an overview, see https://www.usf.edu/undergrad/documents/general-education-council/enhanced-gened-advisor-flyer.pdf.

**International Student Admission Requirements**

**International Applicants (Non-resident Aliens)**

USF System Regulation 3.018
http://regulationspolicies.usf.edu/regulations/pdfs/regulation-usf3.018.pdf item 7

1. International undergraduate applicants who are not permanent U.S. residents (B.0G Regulation 6.009) must submit applications for admission, application fees and all required supporting documents by the published deadlines. Applicants living outside of the United States are encouraged to submit required documentation no later than three (3) months prior to the date of desired entry to USF System institutions or the deadline for the degree program, whichever is earlier.

2. Supporting documentation includes the “Financial Support Requirements” form to show proof of availability of financial resources sufficient to cover all educational, maintenance, personal and travel expenses while attending USF System institutions without financial assistance from the USF System; all transcripts identifying subjects and grades from the first year of secondary work to the time of application or graduation when applying as an entering freshman or a transfer with less than 60 hours of transferable postsecondary credit; appropriate diploma(s), certificate(s), degree(s), mark-sheet(s) and/or examination(s) passed, from the home country, as evidence of United States equivalent qualifications and academic preparation for the degree program requested; and “Transfer Clearance Form” signed by the International Student Advisor, if currently enrolled in a U.S. Institution. Each International applicant must submit a signed health history form, including proof of immunizations as required by USF Policy 33-002, and proof of adequate health insurance coverage as required by USF Regulation 6.0162.

3. All transcripts must be in English. It is the applicant’s responsibility to have the transcript(s) translated before submitting them as part of their admission credentials. All transcripts not in English must be accompanied by a certified English literal translation; foreign postsecondary transcripts must be evaluated by one of the credential evaluation services identified and published by the appropriate international admissions office. Documents signed by a notary or other public official with no educational affiliation will not be accepted.
4. Applicants whose native language is not English, from non-English speaking countries, or who have not earned a degree in the United States must provide, taken within 2 years of the desired term of entry, a minimum IELTS score of 6.5, a minimum PTE-A score of 53, a minimum Test of English as a Foreign Language (TOEFL) score of 79 (internet-based test), 213 (computer-based test) or 550 (written test), a minimum IELA score of 176 (with minimum subscores of 169) or a minimum FCE score of 176 (with minimum subscores of 169). Official Scores must be submitted to USF directly from the testing agency. The English Proficiency requirements may be waived for an undergraduate applicant, if the applicant has completed successfully the equivalent of English Comp I or has submitted SAT or ACT test scores sufficient to validate English reading and writing proficiency as determined by the Board of Governors of the State University System of Florida.

Some post-secondary international credentials may be evaluated by the Office for International Admissions (https://www.usf.edu/admissions/international/), 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.

Language Requirements for International Students

Applicants whose native language is not English, from non-English speaking countries, or who have not earned a degree in the United States must provide one of the following taken within 2 years of desired term of entry:

1. Minimum TOEFL score of 79+.
2. Minimum IELTS score of 6.5+.
4. Minimum IELA score of 176+ (subscores of 169+).

Official Scores must be submitted to USF directly from the testing agency. See http://regulationspolicies.usf.edu/regulations/pdfs/regulation-usf3.018.pdf for more information.

The TOEFL, IELTS, PTE-A or IELA requirement shall be waived if the applicant has an Associate in Arts (AA) degree/certificate from a Florida public college/university or if, immediately prior to the 5 entry date, the applicant has spent four consecutive years in a school where all courses are taught in English or if the applicant meets the Board of Governors’ minimum SAT Evidenced-Based Reading and Writing or ACT scores in Reading.

The English Proficiency requirements may be waived for an undergraduate applicant, if the applicant has completed successfully the equivalent of English Comp I or has submitted SAT or ACT test scores sufficient to validate English reading and writing proficiency as determined by the Board of Governors of the State University System of Florida. Applicants who earn a baccalaureate or equivalent degree at a foreign institution where English is the language of instruction (for the institution and not just the major) may meet this requirement. However, other related factors (including test scores) will also be considered. Medium of instruction must be documented on the transcript or on an official Certificate of Medium of Instruction from the Institution.

If your English Proficiency falls below these published minimums, then please contact INTO USF for admission to our pathway programs or our English Language Programs.

INTO University of South Florida
4202 East Fowler Avenue, FAO100
Tampa, Florida 33620 USA
P: +1 813 905 4686
FAX: +1 813 905 9686
INTOadmissions@usf.edu
http://www.intostudy.com/usf/apply

Mandatory Health Insurance for International Students on F and J Visas


International students in F or J visa classes must demonstrate that they have adequate health insurance coverage prior to enrollment. International students in J visa classes must also demonstrate that their accompanying spouse and dependents have adequate health insurance coverage prior to enrollment. Adequate health insurance for international students in F and J visa classes must include:
ADMISSIONS AND RELATED MATTERS

UNIVERSITY OF SOUTH FLORIDA 2019-20 UNDERGRADUATE CATALOG

- Coverage period for full academic year, including annual breaks
- Medical benefits of at least $100,000 per person per accident or illness per policy year
- Basic medical benefits to include hospital and physician office visits
- Mental health care to include hospital and clinician office visits
- Female students must have maternity benefits covered as any other temporary medical condition
- Prescription drug benefits
- Medical Evacuation $50,000
- Repatriation of mortal remains $25,000
- Insurance carrier must have an “A” rating
- Medical claims must be paid in U.S. dollars payable on a U.S. financial institution

To comply with this regulation, USF Student Health Services Compliance Office must receive adequate documentation a minimum of two weeks prior to enrollment. USF Student Health Services sponsors a medical insurance for international students that meets and exceeds the federal, state, and university requirements. Policy information, current costs, and enrollment process are available at https://www.usf.edu/student-affairs/student-health-services/insurance/inscompliance.aspx.

For questions, contact 813-974-5407 or insurance@shs.usf.edu.

Other Admissions Information

Honors College

USF Honors College
4202 E. Fowler Avenue, ALN 241
Tampa, FL 33620
(813) 974-3087
contactus@honors.usf.edu
https://www.usf.edu/honors/

The USF Honors College on the Tampa campus is primarily designed for high achieving 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 are intended for students regardless of major. The primary goals of the Honors College are to develop superior critical thinking skills through intensive research and interdisciplinary learning, foster a nuanced global perspective on contemporary issues through an internationalized curriculum and meaningful study abroad experiences, and encourage a rich understanding of social concerns through structured community engagement projects. (See complete description under “Honors College.”) Many scholarships are available exclusively to Honors College students.

Admission to the Honors College is determined by the Dean of the College.

- FTIC students are invited to join the College if they present at least a 4.0 USF recalculated weighted academic high school GPA, and a 1400 two-part SAT or a 30 composite ACT score.
- FTIC students presenting a 3.8 and either a 29 ACT or 1360 two-part SAT will be invited to apply for admission to the College.
- Students not admitted as FTIC, as well as transfer students, may apply for admission after completing 30 college credits with a 3.5 GPA.
- Students may also be admitted by petition to the Dean.

Departmental Honors opportunities are available in select departments; requirements vary according to department. Students may enroll in both the Honors College and Departmental Honors programs.

Students who satisfactorily complete the Honors College requirements and graduate with a USF GPA of 3.25 or above shall be identified as Honors College graduates on their diplomas and transcripts and at the Honors College Graduation Ceremony.
Applicants Receiving VA and Social Security Benefits

The University of South Florida is approved by the Florida Department of Veterans Affairs (VA) to educate and train veterans, their spouses or their dependents (100 percent permanent and totally disabled or deceased service connected).

Ten federal public laws currently provide education/job-training programs for VA-eligible students.

Five programs serve most students:

- Chapter 30 for U.S. Military Veterans
- Chapter 31 for Disabled U.S. Military Veterans
- Chapter 33 for U.S. Military Veterans or dependents of veterans
- Chapter 35 for Spouse and Children of Deceased or 100 percent (permanent and totally) Disabled Veterans (service connected), and
- Chapter 1606 for personnel in the National Guard or U.S. Military Reserves.
- Chapter 1607 for personnel in the National Guard or U.S. Military Reserves called or ordered to active duty in response to a war or national emergency (contingency operation) as declared by the President or Congress. Members may be eligible after serving 90 consecutive days on active duty after September 11, 2001.

USF’s Office of Veterans Success (https://www.usf.edu/student-affairs/veterans/), located in the Grace and Allen Building (ALN 130), coordinates veterans services and specific program information. Eligible students must submit an Application for Educational Benefits and request certification for full-time or part-time educational benefits in accordance with VA rules and regulations.

This office also can provide confirmation of student status for VA health care or other benefits. Additionally, the University of South Florida provides military training to college credit evaluation and encourages all veterans to request this service from the campus veterans advocate.

A full-time Fall and Spring semester undergraduate load for VA benefits is twelve (12) credits per semester; a full-time Fall and Spring semester graduate load is 9 credits. Summer terms full and part-time enrollment requirements differ. Students should refer to the USF VA website for specific information about Summer credit requirements.

The Atlanta Regional Processing Office of the U.S. Department of Veterans Affairs determines eligibility based on official service records, evidence submitted by the student and applicable laws. Students with established VA program eligibility at another college or university must submit a Change of Program or Place of Training and a USF enrollment verification request to Office of Veteran Success. They can be contacted at 813-974-2291 or email vetserve@usf.edu.

Chapter 30, 1606 and 1607 program participants are required to verify attendance each month to the federal VA. Verification can be done on the Web Automated Verification of Enrollment (WAVE) page, or veterans can call 1.877.823.2378.

At the end of the term, if an undergraduate student’s cumulative grade point average falls below a 2.0 (C) average, the student will receive an academic warning. If at the end of the next term of enrollment, the cumulative GPA remains below 2.0, the student's educational benefits will be terminated and the DVA will be notified of the student's unsatisfactory progress for VA pay purposes. Students must meet the conditions for USF readmission to become eligible again for VA educational programs.

Social Security Benefits

Inquiries related to Social Security benefits should be directed to the student’s local Social Security Office. The Office of the Registrar (https://www.usf.edu/registrar/) will complete enrollment certificates after the Add/Drop period for the applicable academic term issued by the Social Security Administration for students eligible to receive educational benefits, as long as the student is a full-time undergraduate.

A full-time undergraduate load for Social Security benefits is twelve (12) credits per semester; a full-time graduate load is nine (9) credits.
Transient Students

USF System Policy 10.001
http://regulationspolicies.usf.edu/policies-and-procedures/pdfs/policy-10-001.pdf

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 and are required to complete the Transient Student Admissions Application available at https://www.floridashines.org/ floridashines.org. All other Transient Students must apply as non-degree-seeking students.

See Non-Degree-Seeking Students for more information.

Cross Enrollment/Transient Student - USF/Florida College System

A transient student form is used when a USF student wishes to take courses at a Florida public institution outside of the University of South Florida System. Students wishing to take courses at public institutions in Florida must complete the Transient Admissions Application (https://www.floridashines.org/succeed-in-college/take-a-course-at-another-school). This application is 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). Completed applications are automatically sent within three business days to the student's advisor/college office and to the Office of the Registrar and typically processed within three business days.

Students interested in taking courses at a private or out-of-state institution must complete the Transient Form located on the Office of the Registrar's website at https://www.usf.edu/registrar/documents/forms/outgoing-transient-student-form.pdf.

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.

For more information, visit Undergraduate Studies website at: https://www.usf.edu/undergrad/academic-processes/transient-and-cross-enrollment.aspx.

Non-Degree Seeking Student

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 interested in 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 interested in taking courses for self-enrichment, and senior citizens are examples of those eligible to enroll as non-degree seeking. 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 Office of the Registrar (https://www.usf.edu/registrar) prior to registration.

Applicants denied undergraduate admission to USF as degree-seeking students will not be permitted to enroll as non-degree-seeking students, unless the degree-seeking admission denial was more than five years prior to the application to be a non-degree seeking student. In this case, the hold will be overridden to allow a potential non-degree seeking student to enroll. Any applicant denied undergraduate, degree-seeking admission who currently attends a Florida State University System institution, will have the hold overridden, providing an approved transient application from the current Florida State University System institution is received by USF.

Performance in courses taken as a non-degree seeking student 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 and may not petition using the ARC Reinstatement process. 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 programs. Students earning a second baccalaureate degree or enrolling in an approved program may request an exception for transfer of additional USF non-degree credit hours through the Dean's Office in the Office of Undergraduate Studies.

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

Non-degree-seeking students are subject to the same academic policies as undergraduate degree-seeking students and must adhere to deadline dates published on the Office of the Registrar's webpages (https://www.usf.edu/registrar/calendars/index.aspx). 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 in the Office of Academic Advocacy (https://www.usf.edu/undergrad/academic-advocacy/).

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.

### Senior Citizen Tuition Fee Waiver

Florida residents who are 60 years of age or older as of registration day, and have lived in Florida for the last 12 consecutive months, may enroll on a space available basis in certain undergraduate and graduate courses without paying fees. For more information, visit https://www.usf.edu/registrar/resources/index.aspx. A parking permit, purchased from Parking Services (https://www.usf.edu/office-of-undergraduate-studies/parking/), is required.

The Senior Citizen Tuition Waiver covers a maximum of 12 credit hours per term and is applicable only if the student registers for these courses on the designated registration day. Due to the non-degree seeking status, academic credit is not awarded, examinations are not required, and grades are not assigned. The student's status for that class is an audit, and his/her presence in the classroom is as a listener. For more information see, http://regulationspolicies.usf.edu/policies-and-procedures/pdfs/policy-10-006.pdf (page 5-6).

Senior Citizen registration requests are processed on the sixth day of the term. Students need not be present in order to register; the application and registration worksheet may be submitted by mail, fax, or email. Forms submitted after the registration deadline will not be processed.

Many courses require departmental approval, prerequisites, or have other restrictions which may limit registration. You must acquire the necessary permits in advance of registration on a Senior Citizen Audit Registration Worksheet: https://www.usf.edu/registrar/resources/index.aspx.

Additionally, the permits must be submitted electronically in OASIS by the issuing department ahead of registration.

Students may not pre-register for courses in which they plan to use the Senior Citizen Tuition Fee Waiver. The waiver will not be processed if a senior citizen pre-registers and then submits a Senior Citizen Tuition Waiver application for those courses (https://www.usf.edu/registrar/documents/forms/senior-citizen-tuition-waiver.pdf).

It is the student’s responsibility to complete and submit the waiver application, allowing sufficient time for the application to reach the Office of the Registrar by the registration deadline.
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Office of Student Financial Assistance

University Scholarships & Financial Aid Services
4202 E. Fowler Avenue, SVC 1102
Tampa, FL 33620
(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) 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. 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 https://www.usf.edu/financial-aid/ or stop by University Scholarships & Financial Aid Services.

USF St, Petersburg
(727) 873-4128
https://www.usfsp.edu/financial-aid/

USF Sarasota-Manatee
(941) 359-4459
http://usfsm.edu/financial-aid/

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: https://oasis.usf.edu/.

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

Since many programs are funded on a limited basis, it is to your advantage to apply early. Priority application dates and detailed information regarding financial aid are provided each year on the Scholarships and Financial Aid Services’ website. Check out USF’s scholarship information at https://www.usf.edu/financial-aid/scholarships/.

University Scholarships & Financial Aid Services communicates important information regarding aid exclusively via the student’s USF e-mail account. Tuition deferments are automatically posted for qualified financial aid applicants. The deadline for tuition payment can be found at https://www.usf.edu/business-finance/controller/student-services/.

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 https://www.usf.edu/financial-aid/know-this/withdraw.aspx.

Each USF institution has financial representatives:

- Tampa: (813) 974-4700
- Sarasota-Manatee: (941) 359-4459
- St. Petersburg: (727) 553-4128

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

The FAFSA can be filed electronically at https://studentaid.ed.gov/sa/fafsa:

- Using the IRS Data Retrieval Tool found within the FAFSA is the most accurate and secure method of providing the required federal tax information.
- Applicants who use the unchanged data generated by the IRS Data Retrieval Tool will not be required to provide federal tax return transcripts from the IRS to the financial aid office.
- Students who are selected for verification who did not use the IRS Data Retrieval Tool, or changed data after using the tool, may be required to submit IRS tax return transcripts to verify tax information.
- Per federal regulations, copies of income tax returns (Form 1040, 1040EZ, etc.) are not acceptable. The only exceptions to this rule include those who file tax returns in Puerto Rico or foreign countries.

Information provided on the Student Aid Report (SAR) should be reviewed thoroughly;

- Review all correspondence, follow instructions on the Student Aid Report (SAR), and follow through within 5 – 10 business days. Delays can be costly as well as frustrating.
- The U. S. Department of Education will select students for a process called verification. If selected, students will be required to provide documents supporting the information submitted on the FAFSA. Subsequent requests for data may be necessary after initial submissions are reviewed. Prompt response to requests will expedite completion of this process.
- Students selected for verification for the 2019-20 aid year are advised to submit all requested documents within ten business days of being notified what requirements are needed. Students should have a completed financial aid file no later than 60 days prior to the beginning of a semester.
- Late or incomplete submission of documents can result in delayed disbursements or possible loss of eligibility for aid.
- Offered federal funds and other need-based financial aid are considered estimates until verification is complete and all necessary corrections have been made.

Student Eligibility Requirements and Conditions for Receiving Financial Aid

2018-19 Financial Aid Terms & Conditions

Your financial aid award offer is based on full-time enrollment and reflects your eligibility based on your grade level, residency status and other program specific criteria at the time of the award offer. If you enroll less than full time, your budget will be reduced to reflect your enrollment status and award amounts adjusted accordingly. Your award amounts may be revised starting 30 days prior to the start of each semester, based on your credit hour enrollment and the length of your courses.

NOTE: If you received an aid offer after these adjustments started in a given semester, your budget and award amounts may already reflect your enrollment.

If you do not enroll in the fall semester, your initial offer is void and you will be re-awarded if you enroll in the spring. This may result in a loss of previously awarded aid funds.

Your eligibility for financial aid funds requires you to satisfy the following terms and conditions:

1. **Enroll as a degree seeking student.**
2. **Meet the specific enrollment requirements** (https://www.usf.edu/financial-aid/enrollment-status.aspx) and academic requirements to receive funds for each financial aid program you have been awarded. More information about the requirements for your specific awards is available in OASIS (https://usfonline.admin.usf.edu/pls/prod/twbkwbis.P_WWWLogin) after you accept these Terms and Conditions.
3. **Report funds** you expect to receive from sources not shown on your award notice to minimize delay in your aid being paid. Examples of such sources include tuition waivers, fellowships, scholarships, veteran’s benefits, or vocational rehabilitation benefits. Notify us immediately via OASIS. Choose ‘Financial Aid,’ then ‘My Award & Loan Information,’ then ‘Resources/Additional Information’ tab. Enter the resource information and submit. Your financial aid offer may need to be reduced and aid repaid.
4. **Attend class.** Attendance is required to receive financial aid (including student loans). If you drop some classes (https://www.usf.edu/financial-aid/know-this/drop-credits.aspx), stop attending all classes, or totally withdraw (http://www.usf.edu/financial-aid/know-this/withdraw.aspx) you may be required to immediately repay some financial aid (including student loans).

5. **Check your financial aid Satisfactory Academic Progress (SAP) status** (https://www.usf.edu/financial-aid/sap/index.aspx) each semester in OASIS. Under the Financial Aid tab, click ’My Award and Loan information’. Your SAP status each semester must be eligible at your degree level in order to receive funds from most financial aid programs.

6. **Check OASIS** each semester to see that you have satisfied all requirements to receive financial aid. Choose ‘Financial Aid,’ then ‘My Requirements, Bookstore Authorizations and Deferments.’

7. **Verification** (https://www.usf.edu/financial-aid/verification/) must be completed and your FAFSA (https://fafsa.ed.gov) information updated (if required) before your aid can be disbursed. If you do not complete verification promptly when requested, aid previously offered may be cancelled.

### Academic Scholarships

University Scholarships & Financial Aid Services (USFAS) provides prospective and currently enrolled students with a central location to access scholarship information. The office administers the 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 (https://www.usf.edu/admissions/). An online search for USF scholarships may be found at: https://usfweb2.usf.edu/finaid/scholarships/.

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

To be considered for Florida resident merit-based scholarships from the Office of Admissions, students must submit a complete admissions application by January 15. For additional information about the awarding process, please visit Freshman Scholarship Requirements & Timeline (https://www.usf.edu/admissions/freshmen/admissions-scholarships/requirements.aspx). All scholarships are awarded on a funds available basis to students that have been admitted to the Tampa campus. Scholarships are not transferrable to other USF campuses.

For non-Florida residents, a limited number of out-of-state tuition waivers are available based on academic performance. See https://www.usf.edu/admissions/freshmen/admissions-scholarships/nonflorida.aspx for more information.

The individual colleges of the University administer some scholarships directly through the Dean’s Office in each college.

### Financial Aid Dates & Deadlines

- January 1, 2019 – Priority deadline for 2019-20 FAFSA
- February 1, 2019 – 2019-20 Scholarship deadline for Summer/Fall 2019 First Time in College admits
- March 1, 2019 – 2019-20 Scholarship deadline for Summer/Fall 2019 Transfer admits
- April 15, 2019 – 2019-20 Scholarship deadline for continuing students

For a Checklist & Priority Dates, see https://www.usf.edu/financial-aid/checklist.aspx
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Student Accounting Services

Office of Student Accounting
Tampa Campus SVC 1039
4202 E. Fowler Ave ALN 147
Tampa, FL 33620
(813) 974-6056
FAX: (813) 974-3618
sfshelp@usf.edu

The Office of Student Accounting is here to serve the students who attend our university by maintaining accurate financial records and communicating with students concerning their accounts. Our department is primarily responsible for: tuition assessment, refund processing, recording of waivers, administration of the Florida Prepaid and third party programs, and daily communication with customers.

Florida Residency Classification for Tuition Purposes

Florida K-20 Education Code, Florida Statutes, section 1009.21 and University Policy/Procedure concerning Florida Residency for tuition purposes

In determining residency classification, students fall into one of two categories:

1. **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.

2. **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.

Rental 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.

The following persons may be considered for Florida residency for tuition purposes: U.S. citizens, lawful permanent residents, permanent resident aliens, or a legal aliens granted indefinite stay by the INS, and non US citizens as permitted by Florida statute. Qualifying independent students or a dependent students’ parents/legal guardians must establish and maintain a legal Florida residence for at least twelve months before the first day of classes of the term for which Florida residency status is sought.

The student is required to provide USF documentation of 12 months legal residence before a student is classified as a Florida resident for tuition purposes. A student is required to submit a Florida Residency Declaration and the documentation required by USF to establish Florida residency for tuition purposes no later than the fifth day of classes in the term for which the initial classification is sought.

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

**Required Documentation**

At least one of the two necessary documents must be from this list:

- Florida Driver’s License
- Florida Voter Registration card
• Florida Vehicle Registration
• State of Florida identification card
• Proof of a permanent Florida home which is occupied as your primary residence
• Proof of a Florida homestead exemption
• Proof of permanent full-time employment in Florida (one or more jobs for at least 30 hours per week for a 12-month period; i.e. official employer letterhead) is required
• Transcripts from a Florida high school for two or more years if the student's Florida high school diploma or GED was earned within the last twelve (12) months

Additional Documentation may include:
• A document evidencing verifiable family ties to a Florida resident, as defined by tuition purposes.
• A declaration of domicile in Florida (the date that the Clerk of Circuit Court notes the declaration was established shall be 12 months prior to the start date for the term in which you are applying for consideration)
• A Florida professional occupational license
• Proof of Florida-based charitable or professional organization membership
• Documents of evidence of Florida incorporation
• Documents supporting the applicant's claim of Florida residence status including, but not limited to, proof of 12 consecutive months of payment of utility bills, a lease agreement or official state, Federal or court documents depicting Florida legal ties
• Documents that demonstrate verifiable family ties to a Florida resident, as defined by Regulation for tuition purposes.

For more information regarding residency for tuition purposes and residency tuition waiver exceptions visit: https://www.usf.edu/registrar/resources/residency.aspx or email residency@usf.edu.

For more information about exceptional categories, contact the Admissions Office (813-974-3350), the Office of the Registrar (813-974-2000), or the Office of the General Counsel (813-974-2131).

Change of Residency Status

Residency for tuition purposes is defined by state law. The University must adhere to the criteria set forth in Florida School Code (SB-20E) Section 1009.21 Florida Statutes (http://www.leg.state.fl.us). This statute applies to all institutions of higher learning in Florida. Staff at the University of South Florida cannot make exception to the rules set forth by the state nor can staff make exceptions based on financial hardship or extenuating circumstances.

The Office of the Registrar (https://www.usf.edu/registrar/) must receive the student's Request for Reclassification and supporting documentation no later than the end of the first week of classes for the term in which they are requesting reclassification. Requests submitted after the deadline will be considered for a future term only. There are no exceptions to the mandated deadline for submission.

Requests to re-evaluate a student's classification in a previous term will not be considered, except in cases of documented University error. If you have questions or concerns about your particular circumstances, contact residency@usf.edu.

Residency Reclassification for Current Students

If you believe you qualify as a Florida resident for tuition purposes, complete the Florida Residency for Tuition Purposes Request, attach copies of supporting documentation, and submit the package no later than the end of the fifth day of classes in the term for which you seek initial or reclassification. Original documentation must be available for review. Additional documentation other than what is described may be required by the University.
A Florida "resident for tuition purposes" is a person who has or a dependent person whose parent or legal guardian has established and maintained legal residence in Florida for at least 12 months. Other persons not meeting the 12-month legal residence requirement may be classified as Florida residents for tuition purposes in Florida only if they fall within one of the limited special categories authorized by the Florida Legislature and the Florida Board of Education. All other persons are ineligible for classification as a Florida "resident for tuition purposes."

**IT IS IMPORTANT TO KNOW:**

- The following persons may be considered for Florida residency for tuition purposes: U.S. citizens, lawful permanent residents, permanent resident aliens, or a legal aliens granted indefinite stay by the U.S. Department of Homeland Security, and non US citizens as permitted by Florida statute.
- Documents supporting the establishment of legal residence must be dated, issued, or filed 12 months before the first day of classes of the term for which reclassification is sought. All documentation is subject to verification.
- Living in or attending school in Florida will not in itself establish legal residence.
- Students who depend on out-of-state parents for support are presumed to be legal residents of the same state as their parents.
- Residence in Florida must be for the purpose of establishing a permanent home and not merely incident to enrollment at an institution of higher education.

**COPIES OF DOCUMENTATION**

A copy of you and your parents’ most recent tax transcript or other documentation may be requested to establish dependence/independence.

- **DEPENDENT:** A person for whom 50% or more of his/her support is provided by another as defined by the IRS.
- **INDEPENDENT:** A person who provides more than 50% of his/her support.

A copy of a marriage license is required in all cases of a spouse claiming a partner’s residency.

**Veterans Benefits**

USF is approved for the education of veterans, eligible dependents, 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.

**How to Apply**

Students who may be eligible for benefits are urged to contact the Office of Veterans Success at [https://www.usf.edu/student-affairs/veterans/](https://www.usf.edu/student-affairs/veterans/). Once admitted, peer counselors will guide the student veteran through the process of requesting Veterans Educational Benefits through our online Clockworks system. You can contact the Office of Veterans Success at ovs@usf.edu or come by the office at ALN 190 or call 813-974-2291.

**Eligibility**

To be eligible for full-time VA benefits at USF, undergraduate students must enroll for 12 or more semester hours, and graduate students must enroll for 9 or more semester hours each normal academic term. Additional information for obtaining education benefits can be found at [https://www.usf.edu/student-affairs/veterans/admissions/pathway-to-admission.aspx](https://www.usf.edu/student-affairs/veterans/admissions/pathway-to-admission.aspx)

**Out-of-State Waiver**

HB 7015-Florida GI Bill, created the “Congressman C.W. Bill Young Tuition Waiver Program.” This will waive out-of-state tuition fees for honorably discharged veterans of the U.S. Armed Forces, Reserves, or National Guard who physically reside in Florida while enrolled at an institution in the State University System of Florida. Persons who are entitled to and use educational assistance provided by the United States Department of Veterans Affairs also qualify for this waiver if they physically reside in Florida while enrolled at the University. Tuition and fees charged to a veteran or person who qualifies for the out-of-state fee waiver under this section may not exceed the tuition and fees charged to a resident student enrolled in the same program. Information on requirements and deadlines for the Out-of-State Waiver is found at [https://www.usf.edu/student-affairs/veterans/admissions/out-of-state-waiver.aspx](https://www.usf.edu/student-affairs/veterans/admissions/out-of-state-waiver.aspx). For more information regarding residency for tuition purposes and residency tuition waiver exceptions visit: [https://www.usf.edu/registrar/resources/residency.aspx](https://www.usf.edu/registrar/resources/residency.aspx) or email residency@usf.edu.
Tuition Deferment
The tuition deferment program for Veterans is set up through USF and the VA. Due to VA payments being delayed at times, a tuition deferment gives the student and the VA an extra 60 days past the start of the semester to pay for a student's tuition and fees.

See Military and Veterans Success Center (MVSC) under Student Affairs section of the catalog for support for Military Learners.

Special Populations Waiver
Out of State Waiver Eligibility Process: Bill HB 851-Postsecondary Education Tuition and Fees ([https://www.usf.edu/registrar/resources/forms.aspx](https://www.usf.edu/registrar/resources/forms.aspx)) allows students, including but not limited undocumented students who meet certain guidelines, to receive waivers to attend college at Florida resident (in-state) tuition rates. These non-resident students, who do not have sufficient ties to Florida as set forth under Florida School Code (SB-20E) section 1009.21, Florida Statutes, may qualify for an out-of-state tuition waiver.

Child Protection & Welfare Tuition Exemption: Section 402.403, Florida Statutes, established the Child Protection and Child Welfare Personnel Tuition Exemption Program for the purpose of recruiting and retaining high-performing individuals who are employed as child protection and child welfare personnel. For those personnel who meet the requirements of the program up to six credit hours of courses per term are exempt from the payment of tuition and fees at an institution in the State University System of Florida.

For more information regarding residency for tuition purposes and residency tuition waiver exceptions visit: [https://www.usf.edu/registrar/resources/residency.aspx](https://www.usf.edu/registrar/resources/residency.aspx) or email residency@usf.edu.

For more information about exceptional categories, contact the Admissions Office (813-974-3350), the Office of the Registrar (813-974-2000), or the Office of the General Counsel (813-974-2131).

School Costs and Fees
Tuition and fees are based on a number of factors, including undergraduate or graduate status, residency and the type of housing chosen. However, even if you live out of state, our costs often competitive with the in-state rates at your local university. The Cost of Attendance charts provide estimated expenses for a full time student based on residency and living arrangements. The amounts are used in awarding financial aid funds. As these are estimates, please note that if you enroll less than full time, the amounts will be reduced to reflect lower costs. Compare costs at [https://www.usf.edu/financial-aid/cost-of-attendance/](https://www.usf.edu/financial-aid/cost-of-attendance/).

Students Living On-Campus

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<th>Full-Time Tuition and fees</th>
<th>Housing/Meals</th>
<th>Books/Supplies</th>
<th>Other Expenses*</th>
<th>Total</th>
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Students Living Off-Campus with Parents

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<th>Other Expenses*</th>
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Students Living Off-Campus Not with Parents

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</table>


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 Fee – (Each application - not refundable) $30.00
3. Tuition

Schedule/Fee Statements are not 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 - https://webauth.usf.edu.

The student is responsible for paying fees in full by the appropriate due date as stated at https://www.usf.edu/business-finance/controller/student-services/deadline-dates.aspx. Failure to do so may result in cancellation of the student’s registration. 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. 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 on the OASIS website.

1. **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.
2. **Tuition Fee Payment** - Access the “Tuition Fees and Payments” option in OASIS at https://webauth.usf.edu
3. **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.
4. **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. Students are encouraged to setup an eDeposit account in OASIS.

5. **Cancellation for Non-Payment of Fees**
   Students not on an authorized deferred payment of fees and who have not paid their tuition and fees in full by the applicable bill due date 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.

6. **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 states that certificate holders are entitled to a waiver of only matriculation fees for a maximum of six (6) credit hours instruction during a single term. Certificates are valid for three years from the date of issuance.
   
   Fees must be paid or postmarked by the U.S. Post Office (not office meter marked) by the fifth day of the term. The University cannot be responsible for lost or misdirected U.S. Mail.

7. **Employee Tuition Program**
   The USF Employee Tuition Program authorizes full-time USF employees who are appointed to established positions, to enroll in USF credit courses, up to six credit hours per semester. Summer terms A, B, and C are all part of one semester. Employees 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 they are enrolled.

8. **Tuition Deferment for VA Students**
   Students receiving VA benefits, who have applied in writing no later than the date specified by the Office of Veteran Success, have until the VA deferment bill due date to pay tuition in full. If the application is late, students are not eligible for a deferment and could be dropped from classes and receive late fees.

9. **Florida Prepaid College Program**
   Students who are eligible to receive benefits under this program may be responsible for the local fees, differential fees, and other fees depending upon which Florida Prepaid plan they are enrolled in.

10. **Mailed Payments**
    To avoid cancellation of registration or a $100.00 Late Payment Fee, all fee payments must be postmarked by the U.S. Post Office (not office metered) by the applicable fee payment deadline.

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.

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**Payment of Accounts Due to 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 and the release of transcripts and diplomas for any student whose account with the University is delinquent. Delinquent accounts may be turned over to a collection agency and all collection fees including legal fees will be added to the student account balance. Financial aid from a succeeding academic year cannot be used to repay prior academic year debts.

Payments should be made by the appropriate deadline and can be:

- Brought into the Cashier’s Office in the Student Services Building (SVC 1039)
- Mailed to the University of South Florida, P.O. Box 864571, Orlando, FL 32886-4571
- Made online by accessing OASIS
Payment Procedures

Payment must be received or postmarked no later than the fee payment deadlines as specified on the Important Dates & Deadlines page - https://www.usf.edu/registrar/calendars/.

The primary form of payment of most account holders is on-line through OASIS via the myUSF portal. Students can pay using a check or a credit card in this system. Payments cannot be transacted by telephone.

Acceptable Forms of Payment

USF accepts online credit/debit cards or eCheck in your OASIS account, via postal mail by check or money order, or in person by check or cash. For complete details, please visit the University Controller’s Office at https://www.usf.edu/business-finance/controller/student-services/cashiers/index.aspx.

If your bill is to be paid by an outside agency (government sponsor or other third-party sponsor), your scholarship agency should notify the University in advance by letter stating the amount and length of time of the award and whom to bill for tuition. Keep the original copy in case the immigration officer at the port of entry or the University Cashier’s Office requests it.

- **eCheck** (recommended) – check payments can be made in OASIS by entering the routing and account number from your checking account paper checks.
  - **Benefits**: There is no additional cost to pay using this method and payments post immediately.
- **Credit Card** – MasterCard, American Express, and Discover credit card payments can be made in OASIS. A 2.5% convenience fee will be charged.
- **Mailed Check/Money Order** – Checks and money orders (with student ID included) can be mailed to the address below. Please allow sufficient time for the checks to be received before the due date:
  
  University of South Florida  
  P.O. Box 864571  
  Orlando, FL 32886-4571

- **Cashier's Office** – Cash and check payments can be made in the Cashier’s Office in the Student Services Building – SVC 1039

If you have questions regarding charges or payments on your student account or questions about your 1098-T (https://www.usf.edu/business-finance/controller/student-services/accountsreceivable/1098t.aspx) please call 813-974-6056 or email SFSHELP@USF.EDU. You can also visit SVC 1039 on the Tampa campus.

- For questions about your FAFSA or financial aid awards, please contact University Scholarships and Financial Aid Services (https://www.usf.edu/financial-aid/questions/).
- For questions regarding residency, please contact Registrar’s Office at https://www.usf.edu/registrar/resources/residency.aspx.

**Location:**  
Student Service Building,  
Tampa Campus SVC 1039  
Mail Point: ALN 147

**Address:**  
UCO-Student Accounting  
University of South Florida  
4202 E. Fowler Ave, ALN 147  
Tampa, FL 33620

Other Forms of Payment

Tuition and fees may be partially or completely paid by Financial Aid, Florida Prepaid, tuition waivers, or departmental grants. The student is responsible to pay any amount that is not covered by these types of payments by the applicable due date.
STUDENT TUITION AND FEES

Financial Aid

For details on how financial aid works at USF, visit https://www.usf.edu/financial-aid/know-this/index.aspx.

Due to federal regulations, there are restrictions on what financial aid information can be discussed with students and/or their parents over the phone and via email. Students are now required to present a photo ID when visiting the Financial Aid Office. If a dependent student, the student must have completed Privacy Release for Dependent Students on file annually in order for financial aid information to be released to parent(s). These restrictions protect the student's personal financial information and assure that only the student has access to the financial aid record.

Florida Prepaid College Plan

The University of South Florida downloads a file from Florida Prepaid and automatically bills for all Florida Prepaid College students with tuition plans that are enrolled for Fall, Spring and/or Summer terms. Dorm plans are billed for students with dorm charges for Fall and Spring terms only. Payment is limited to the maximum amount allowed of the student's available prepaid plan balance.

To determine the student's portion of the fees, use the form at https://www.usf.edu/business-finance/controller/student-services/student-accounting/florida_prepaid_worksheet.pdf. Find the number of hours registered for in the hour's column, and then find the amount under the student's prepaid plan. Subtract the amount that prepaid will cover from the balance of the Fee Assessment on OASIS. The student is responsible for the difference. The amount prepaid is estimated to pay can also be viewed in the memo section of the account summary by term on OASIS. The student's portion of the tuition not covered by Florida Prepaid is due by the Financial Aid deferment deadline of the semester. Payment deadlines can be found at https://www.usf.edu/business-finance/controller/student-services/deadline-dates.aspx.

For questions concerning USF procedures or student account, contact the customer service department:

Email: SFShelp@usf.edu
Phone: (813) 974-6056

Florida Bright Futures

The Florida Bright Futures Scholarship Program (https://www.floridastudentfinancialaidsg.org/SAPBFMAIN/SAPBFMAIN) rewards students for their academic achievements during high school by providing funding for them to pursue post-secondary educational and career goals in Florida.

For more information on this program, including details on how to receive funding at USF, visit: https://www.usf.edu/financial-aid/brightfutures/index.aspx.

Homeless Fee Exemption

Florida Statute 1009.25(f)
http://www.leg.state.fl.us/statutes/index.cfm?App_mode=Display_Statute&URL=1000-1099/1009/Sections/1009.25.html

A student who is homeless may be exempt from paying tuition and fees. The statute defines a homeless student as one who "lacks a fixed, regular, and adequate nighttime residence or whose primary nighttime residence is a public or private shelter designed to provide temporary residence for individuals intended to be institutionalized, or a public or private place not designed for, or ordinarily used as, a regular sleeping accommodation for human beings."

If eligible for the homeless exemption, speak with your Case Manager or Homeless Liaison Officer from the shelter or with a case manager from USF Student Outreach and Support (https://www.usf.edu/student-affairs/student-outreach-support). Student Outreach and Support can be reached at (813) 974-6130.

Tuition Waivers

USF may waive tuition and fees as follows:

- Any dependent child of a special risk member killed in the line of duty, per Sections 112.19 and 112.191, Florida Statutes.
- Certain members of active Florida National Guard are entitled to a waiver of tuition and fees pursuant to Section 250.10, Florida Statutes.

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• A student enrolled through the Florida Linkage Institutes Program is entitled to a waiver of the non-resident tuition and fees pursuant to Section 288.8175(6), Florida Statutes.

• Intern supervisors for institutions within the State University System may be given one non-transferable certificate (fee waiver) for each full academic term during which the person serves as an intern supervisor, pursuant to 1009.26, Florida Statutes.

• Persons 60 years of age or older who are Florida residents, as provided by Chapter 1009.26, Florida Statutes.

• A student who is or was at the time he or she reached 18 years of age in the custody of the Department of Children and Families or who, after spending at least 6 months in the custody of the department after reaching 16 years of age, was placed in a guardianship by the court. Or a student who is or was at the time he or she reached 18 years of age in the custody of a relative or nonrelative under s. 39.5085 or who was adopted from the Department of Children and Families after May 5, 1997, pursuant to Chapter 1009.25, Florida Statutes.

• Purple Heart recipients pursuant to Chapter 1009.26, Florida Statutes.

• Non-Florida resident fee for qualified students including the Deferred Action for Childhood Arrivals (DACA), as provided by Chapter 1009.26, Florida Statutes.

• Non-Florida resident fee for a veteran; C.W. “Bill” Young Veteran Tuition Waiver, as provided in Chapter 1009.26, Florida Statutes.

Waivers can be brought in person to Tampa Campus SVC 1039 or mailed to:

UCO-Student Accounting
University of South Florida
4202 E. Fowler Ave ALN 147
Tampa, FL 33620

The non-Florida student financial aid fee may not be waived for students receiving an out-of-state tuition and fee waiver.

Third Party Billings

Third party billing is a service offered to outside agencies/companies requesting to be invoiced for a student's tuition and fees. A third party cannot be an individual (i.e. a student's parent). If you are a student and are expecting an outside agency to pay for your tuition and fees, the Student Accounting Office must be provided with an authorization to bill that agency.

An authorization is a written statement, preferably on agency letterhead, giving the University permission to bill that agency. An authorization should contain the following information:

• Billing Address
• Contact person (name, phone number, e-mail)
• Student's full name and U#
• Specific semesters that will be paid
• Specific charges that will be paid

Examples of authorizations include: Vocational Rehabilitation authorizations, financial letters of guarantee, tuition assistance forms, letters of credit, and vouchers.

• If your agency does not have a standard letter of authorization, please use the Third Party Billing Agreement Form - https://www.usf.edu/business-finance/controller/student-services/student-accounting/tpb_agreement_form.pdf


QUESTIONS? Email questions related to third party billing to ThirdParty@usf.edu.
STUDENT TUITION AND FEES

Tuition for Senior Citizens

Florida residents 60 years of age or older prior to the first day of classes in the term of registration may enroll on a space available basis in certain undergraduate and graduate courses without paying fees.

Eligible Senior Citizens must supply their registration materials to the Registrar's Office by the 5th business day of the semester. No registrations will be processed on Tampa Campus after the 6th business day of the term. Class registrations affected via OASIS prior to the Senior Citizen Registration date will incur a non-waiveable fee liability.

New Senior Citizen students, or who have not enrolled at USF in the past 3 consecutive terms, must provide two forms of state-issued identification (Driver's License; Voter Registration; Vehicle Registration) with their registration materials. The Senior Citizen Tuition Waiver Program is limited to bonafide residents of Florida. Persons shall be considered Florida Residents provided they have resided and held domicile in the state for at least twelve months immediately preceding the first day of classes for the term. This data is validated through state-issued documents.

Senior Citizen students are required to purchase parking permits to park on campus.

Many courses require college/departmental approval, prerequisites or have other restrictions which limit registration. Senior citizen students must acquire any necessary permits in advance of registration by contacting the department offering the course directly.

Senior Citizen students who are enrolled for classes which require their physical presence on campus must complete and submit the Medical History Form. Failure to submit the required documentation will block registration.

State Employee Six-Hours-Free Course Benefit

Admitted USF degree-seeking or non-degree seeking students who are employed by the State of Florida may apply to waive tuition up to a maximum of 6 credit hours (excluding selected directed individual study or research, internship practicum, music & theatre performance, Cooperative education, PACE, lifelong learning, continuing education and correspondence courses).

Tuition waivers are applicable only if the student adheres to the restriction to delay registering at USF until two business days after 5 p.m. before the start of the semester.

State employees must also acquire all necessary employer approvals on the state employee Tuition Waiver Request form. For more information, visit https://www.usf.edu/business-finance/controller/student-services/student-accounting/waivers-state.aspx

State employees, like all other USF students, register via OASIS but only on or after 5 p.m. two business days before the first day of classes each term. For example, state employee students register after 5 p.m. on Thursday preceding the first day of a semester when classes begin on a Monday. Any state employee who registers at any time before the approved this registration start- time and day forfeits eligibility to use the State Employee Tuition Waiver and will be held fully liable for all USF tuition and fees.

Tuition Waiver Request forms must be completed and returned to the USF Student Accounting Office by the fourth day of class to avoid the $100 Late Payment Fee and potential class cancellation. State of Florida employees, who are not employed by the Florida State University System, will earn taxable income equal to the value of tuition waived for both undergraduate and graduate level courses. Since the value of tuition waived is taxable, it is subject to Federal Income Tax, Social Security and Medicare taxes (FICA), and reported to the Department of Financial Services, Bureau of State Payrolls; each term by the appropriate Division of Human Resources sees that all appropriate taxes are withheld.

Since tuition rates for Florida residents are lower than rates for non-residents, it is important for all state employees utilizing Tuition Waiver Request forms to verify their residency status is correct.

Direct Deposit

1. Tuition is due at the end of the fifth day of classes each term for all students.
2. Financial aid is paid on the sixth day of classes after enrollment is confirmed.
3. If students do not have a tuition deferment or have not paid their bill by the end of the fifth day of classes, their enrollment will be cancelled.
4. Any balance remaining will either be e-deposited to your personal bank account, (Log into OASIS to sign up for E-Deposit) or the Cashier's Office will mail a check to the address listed for the student in OASIS.
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 (https://www.usf.edu/business-finance/controller/student-services/student-accounting/refund_request.pdf) must be completed and presented to the Cashier’s Office, SVC 1039, to initiate the refund process. A two-week waiting period is observed for each refund to be sure checks have cleared.

1. 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.
2. 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 (https://www.usf.edu/registrar/documents/forms/fee-adjust-form2018.pdf) citing circumstances outside of the student’s control which are confirmed and approved by the Registrar. Circumstances to be considered within this six month period include:

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

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

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

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

The University of South Florida will approve a waiver of the Late Payment fee if the student is unable to make payment on time due to circumstances determined by the University to be exceptional and beyond the control of the student. A Late Payment Fee Waiver Request Form (https://www.usf.edu/business-finance/controller/student-services/late_pay_waiver.pdf) may be completed and submitted to the Cashier’s Office, SVC 1039.

Past Due Accounts

The University will cancel the registration of a student whose registration fees have not been paid in full by the deadline as indicated on the Registrar’s Important Dates & Deadlines website (https://www.usf.edu/registrar/calendars/index.aspx). This means, specifically, that a student will receive no credit for any courses taken during that term. This includes students that registered for Alternative Calendar courses using OASIS and courses that start prior to the first week of classes.

If the student is only taking Alternative Calendar courses that were not registered using OASIS and have a start date after the first week of classes, register after the first week of classes or have an authorized deferred payment of fees, their registration may not be cancelled.
Late Fees

Late Payment Fees apply to students who do not pay their fees or obtain a full fee deferment by the payment deadline. The Late Payment Fee is $100 per term.

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

Both a Late Payment Fee and a Late Registration Fee are charged to students who are dropped for non-payment.

Summer term is divided into sessions, and the late fee is charged per session.

Auditing Privileges and Fees

Only an admitted student may register to audit a course; as an auditor, the student is not allowed to take exams, earn grades, or receive credit. The student’s status for that class is an audit. The student’s presence in the classroom is as a listener, which means an instructor may limit auditing student's participation in class, including class projects and other interactive, graded or ungraded activities. For more information see, [http://regulationspolicies.usf.edu/policies-and-procedures/pdfs/policy-10-006.pdf](http://regulationspolicies.usf.edu/policies-and-procedures/pdfs/policy-10-006.pdf).

Audit status may only be obtained at the Office of the Registrar and only during the first five days of the term by filing a Course Audit Form ([https://www.usf.edu/registrar/documents/forms/course-audit-form.pdf](https://www.usf.edu/registrar/documents/forms/course-audit-form.pdf)). A date-stamped permit from the college/department where the course is being offered must accompany a Course Audit Form to the Office of the Registrar. In-state fees are assessed for all audited courses.

Cancellation before First Class Day

Students who do not drop a class via OASIS before the term begins may only cancel their registration by notifying the Office of the Registrar in writing prior to the first day of classes. For more information: [https://www.usf.edu/business-finance/controller/student-services/cancellation.aspx](https://www.usf.edu/business-finance/controller/student-services/cancellation.aspx).

If fees have already been paid, the student may request a full refund of fees from the Cashier’s Office.

Excess Credit Hours Surcharge

BOG Regulation 7.003 (21)  
[https://www.flbog.edu/documents_regulations/regulations/7_003FeesfinespenaltiesregulationFINAL6_21_12.pdf](https://www.flbog.edu/documents_regulations/regulations/7_003FeesfinespenaltiesregulationFINAL6_21_12.pdf)

USF System Regulation 4.0107  
[http://regulationspolicies.usf.edu/regulations/pdfs/regulation-usf4.0107.pdf](http://regulationspolicies.usf.edu/regulations/pdfs/regulation-usf4.0107.pdf) see item 6

The Excess Credit Hour Surcharge is a state mandated fee that requires universities to add a surcharge to each credit hour that is more than 110% of hours needed for completion of your degree or 132 hours for 120 credit hour degree programs. An Excess Hour Fee shall be assessed to designated undergraduate students pursuant to the provisions of BOG Regulation 7.003(21).

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 [https://www.usf.edu/registrar/resources](https://www.usf.edu/registrar/resources).

No institution may waive the excess hours surcharge; the language of the statute is mandatory.
Repeat Course Surcharges

Section 1009.285 of Florida Statutes

A student enrolled in the same undergraduate college-credit course more than twice shall pay tuition at 100 percent of the full cost of instruction and shall not be included in calculations of full-time equivalent enrollments for state funding purposes. However, students who withdraw or fail a class due to extenuating circumstances may be granted an exception only once for each class, provided that approval is granted according to policy established by the Florida College System institution board of trustees or the university board of trustees. Each Florida College System institution and state university may review and reduce fees paid by students due to continued enrollment in a college-credit class on an individual basis contingent upon the student's financial hardship. For purposes of this section, first-time enrollment in a class shall mean enrollment in a class beginning fall semester 1997, and calculations of the full cost of instruction shall be based on the system wide average of the prior year's cost of undergraduate programs for the Florida College System institutions and the state universities. Boards of trustees may make exceptions to this section for individualized study, elective coursework, courses that are repeated as a requirement of a major, and courses that are intended as continuing over multiple semesters, excluding the repeat of coursework more than two times to increase grade point average or meet minimum course grade requirements.

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, death of an immediate family member (parent, step-parents, spouse, child, sibling, or grandparents), orders for active duty; or University error. In all cases, supporting documentation 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.

For consideration, the student must fill out a Repeat Course Surcharge Waiver (see https://www.usf.edu/registrar/documents/forms/fee-adjust-form2018.pdf) and provide supporting documentation. Submit the completed form with documentation to the Office of the Registrar (https://www.usf.edu/registrar/).
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Office of the Registrar

Office of the Registrar
4202 E. Fowler Avenue, SVC 1034
Tampa, FL 33620
(813) 974-2000
asktheregistrar@usf.edu
https://www.usf.edu/registrar

Location: Student Services Building (SVC) 1034

The Office of the Registrar provides student, academic, and administrative services, and is responsible for maintaining each student’s academic record from the time of admission through graduation. Staff coordinate registration and drop/add activities, process grades, prepare transcripts, and process graduation applications. Staff also review and act on student requests for reclassification of residency, name changes and other student record information updates.

The Office of the Registrar provides information and services to students in the University’s Online Access Student Information System (OASIS). Using their Net ID and password, students can register and drop/add courses, process address changes, access registration appointment time and hold information, request privacy, view their grades and order transcripts.

Although technology is leveraged to provide better service, staff provide service in-person and via phone and email.

The Office of the Registrar maintains the official academic records for all students and course registrations for currently enrolled students.

Getting Started

NetID and USF e-mail address-- Almost all online activity at USF including MyUSF, Canvas and student email requires your USF NetID. Create a student NetID to activate your official USF student email account (https://netid.usf.edu/una/?display=active)

MyUSF – USF’s Portal (https://my.usf.edu/Pages/Home.aspx) MyUSF is the window to all of your technology needs including access to Canvas.

Canvas – Access Canvas through MyUSF. Canvas is a learning management software that enables you to complete class assignments, read course documents, post discussions, communicate with classmates, and check your grades for each assignment, and access your email. Virtually all professors use Canvas as a way to communicate noteworthy information to their students.

OASIS – Student self-service access via MyUSF. OASIS provides online access to your personal student information and self-service functionality. In OASIS, you can register, pay tuition and fees, and see midterm and final grades.

Network Access

Before you begin using the USF network, your computer or mobile device must be registered. Once registered, you are able to surf the USF network. The following items are needed:

• A valid USF email address
• Computer’s network adapter address (also known as physical address or mac address)
• A non-USF email address
• A valid phone number

For any University technology questions or concerns, contact the Information Technology Help Desk (https://www.usf.edu/it/about-us/helpdesk.aspx) at (813) 974-1222.
Registration Information

Registration for Admitted Degree-Seeking Students

Continuing degree-seeking students may register via OASIS on or after their registration appointment date and time for their next term’s courses. Registration occurs during the preceding term. More information is available at https://www.usf.edu/registrar/register/index.aspx.

Registered students may make course schedule adjustments from the time of their initial registration through the first week of classes. Deadlines for each term are published at: http://www.usf.edu/registrar/calendars/index.aspx.

Degree-seeking students not registered prior to the first day of classes may register late during the drop/add week (first week of classes); a $100.00 late registration fee is charged for not having initiated registration on time. To avoid financial cancellation, fees are due for all registered courses of record on the fifth day of classes (end of drop/add period).

Administrative Holds

A student may be placed on administrative hold by failure to meet obligations to the University. Students with administrative holds may not be allowed to register, receive a diploma, or receive an official transcript. Settlement of financial accounts must be made at the University Cashier’s Office. Each student placed on administrative hold may determine via OASIS which office to contact in order to clear the obligation. For more information, see https://www.usf.edu/undergrad/students/holds.aspx.

Listed below are the common administrative holds and general instructions related to the hold. If the student has a registration hold that is not on this list, they can find more information from their OASIS account.

<table>
<thead>
<tr>
<th>Hold</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AA</td>
<td>Mandatory Undergraduate Academic Advising hold. Meet with your academic advisor both Fall and Spring semester to discuss your academic course work for the next semester and clear this hold.</td>
</tr>
<tr>
<td>AF</td>
<td>Major Declaration hold for Former Students Returning (FSRs) Meet with your academic advisor to declare a major and clear this registration hold on. All Former Students Returning (FSRs) are required to see their academic advisors before registering for their first semester term back at USF.</td>
</tr>
<tr>
<td>AP</td>
<td>Academic Probation hold. See your academic advisor before to start the process of removing this hold.</td>
</tr>
<tr>
<td>AR</td>
<td>Academic Records hold. Log in to OASIS to view your admissions record to identify the missing items required. If you need additional assistance, please contact the Office of Admissions (<a href="https://www.usf.edu/admissions/">https://www.usf.edu/admissions/</a>).</td>
</tr>
<tr>
<td>BC</td>
<td>Returned Check hold. Contact the Cashier's Office, SVC 1039, (813) 974-6056, regarding this hold.</td>
</tr>
<tr>
<td>CC</td>
<td>Cash Collections hold. Log in to OASIS, and review your Check Account Summary by Term; pay the balance to release this hold.</td>
</tr>
<tr>
<td>FB</td>
<td>Hold specifically for College of the Arts (<a href="https://www.usf.edu/arts/">https://www.usf.edu/arts/</a>), FAH 110, 813-974-2301.</td>
</tr>
<tr>
<td>IM/MH</td>
<td>Immunization Records hold. Submit your immunization information and paperwork to Student Health Services (<a href="https://www.usf.edu/student-affairs/student-health-services/">https://www.usf.edu/student-affairs/student-health-services/</a>), SHS 100, 813-974-2331.</td>
</tr>
<tr>
<td>IT</td>
<td>Academic Integrity hold. To resolve this hold, first check your Canvas dashboard to ensure completion of all 5 online modules associated with the Academic Integrity online tutorial. This hold will prevent registration. Contact the Undergraduate Studies Dean's Office at <a href="mailto:acadintegrity@usf.edu">acadintegrity@usf.edu</a>.</td>
</tr>
</tbody>
</table>
# Student Registration and Records

## LE

## MJ
- Major Declaration hold. You must declare a major after registering for the 36th semester hour. If you received the MJ hold because you did not meet the requirements for a limited access major, you must declare a new major. Visit the Office of Academic Advocacy to meet with an academic advisor to discuss major options ([https://www.usf.edu/undergrad/academic-advocacy/](https://www.usf.edu/undergrad/academic-advocacy/)) in SVC 2043, 813-974-2645.

## OS

## OY
- Hold preventing registration after an FF grade has been assigned, and will only be lifted after the student completes an in-person RAISE tutorial at Testing Services at [https://www.usf.edu/testing-services/index.aspx](https://www.usf.edu/testing-services/index.aspx) (which requires payment).

## PF

## PT
- Hold specifically for Freshman Summer Institute (FSI) students. Contact the FSI office ([https://www.usf.edu/summer/](https://www.usf.edu/summer/)) regarding this hold. SVC2011, 813-974-4227.

## SD

## SF
- Another type of Student Discipline hold. See the Office of Student Rights and Responsibilities ([https://www.usf.edu/student-affairs/student-rights-responsibilities/index.aspx](https://www.usf.edu/student-affairs/student-rights-responsibilities/index.aspx)), ALA 109, 813-974-9443. This hold does not prevent you from ordering your official transcript.

## SI
- Student Health Insurance hold. For more information, contact Student Health Services ([https://www.usf.edu/student-affairs/student-health-services/](https://www.usf.edu/student-affairs/student-health-services/)), 813-974-2331.

### Late Registration


All eligible students* attempting to register for the first time after active registration ends must:
1. Obtain approval from the authorized college/department Academic Regulations Committee.
2. Have the registration processed at the Office of the Registrar ([https://www.usf.edu/registrar/](https://www.usf.edu/registrar/)), SVC 1034.

*An eligible student must be:
1. A continuing USF student,
2. A new student admitted late, or
3. A late readmitted former student returning after three or more semesters.

### Late Payment of Fees

All degree-seeking students who wait to initiate or attempt registration for the first time during the Late Registration (Drop/Add 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 Late Registration (Drop/Add period) will automatically be assessed a $100.00 late registration fee.

Any students who successfully petition for late registration or reinstatement following financial cancellation will be automatically assessed a $100.00 late registration fee.

Requests to waive the $100 late registration fee must be submitted to the Office of the Registrar using the *Late Registration Fee Waiver Request* form ([https://www.usf.edu/registrar/documents/forms/late-reg-fee-waiver.pdf](https://www.usf.edu/registrar/documents/forms/late-reg-fee-waiver.pdf)).
Waiver of Late Fees

USF will approve a waiver of the Late Payment fee if the student is unable to make payment on time due to circumstances determined by the University to be exceptional and beyond the control of the student. Requests for a waiver must meet one of the conditions listed below to be considered:

- University error which precludes timely payment of registration fees. A supporting email from an appropriate USF official's USF email or letter on University letterhead and signed by an appropriate University official or an appropriate official University document must be included with your petition.

- Extraordinary circumstances such as severe illness, death of an immediate family member (parent, step-parent, spouse, child, sibling or grandparent), or call to active duty that precludes timely payment of registration fees. Appropriate documentation (note from physician, copy of military orders, etc.) must be included with your petition.

If you have any questions, contact the Cashier's Office at 813-974-6056.

Return the completed and signed petition form (https://www.usf.edu/business-finance/controller/student-services/late_pay_waiver.pdf) and all relevant documentation to SVC 1039. You can also email your packet it sfsc committee@usf.edu or send via mail:

Student Financial Services
University of South Florida
4202 E. Fowler Ave, ALN 147
Tampa, FL 33620

Course Information

Course Load/Maximum Hours

A normal enrollment for undergraduates is defined as 15 credit hours per semester. With academic advisor approval, students are allowed to take a maximum number of 18 credit hours per semester in Fall and Spring and 14 credit hours in the Summer session.

Students may request an exemption to the maximum amount of credit hours allowed per semester through their academic advisor.

Course Prerequisites/Corequisites

A prerequisite is a course in which credit must be earned prior to enrollment in another course. A corequisite is a course that must be taken concurrently with another course. A concurrent prerequisite may be taken either prior to or at the same time (concurrently) as another course.

It is the student’s responsibility to review prerequisite and corequisite information as stated in the course description. Non-degree students should contact the academic department for permission to enter any course that requires a prerequisite or corequisite. USF reserves the right to drop a student who does not meet the course requisites from the appropriate course. A student whose registration is cancelled will receive an email notification from the Office of the Registrar to the student's USF email account.

Courses Outside Degree Programs

Unless otherwise stipulated by external accreditation agreements, students whose academic programs require courses in other disciplines shall be given the same access to those courses as students in those majors.

Directed Independent Study

Students who wish to study or do research under the direction of a faculty member for topics or areas not detailed in regularly scheduled courses may make arrangements for such study as a directed independent study. Credit hours and requirements are determined by the director of the study.

Registration requires the approval of the faculty member who will supervise the study and the department chair, in addition to the completion of the USF Contract for Independent Study & Directed Research. Each College and/or Department has their own form; students should contact their Academic Advisor for more information.
Directed studies are available for approved subject area prefixes and levels and are designated by the last three digits of the course number. For example, ARH 4905 designates a senior level directed independent study in Art History.

**Adds**

After a student has completed registration on the date assigned, the student may continue to add more courses until the fifth day of classes, otherwise known as the end of drop/add period outline on the Office of the Registrar’s webpages: [https://www.usf.edu/registrar/calendars/index.aspx](https://www.usf.edu/registrar/calendars/index.aspx).

For undergraduate students requesting that certain University policies be waived through the Academic Regulations Committee (ARC) petition process, this process can be used to late add a course after the add/drop deadline, limited to second week of classes. Waivers received after the second week of classes will not be processed.

ARC petitions are reviewed by Colleges. Contact and submit relevant documentation to the ARC representative in the College of your declared major. It is the student's responsibility to obtain, complete and submit all documentation required by this process. Incomplete petitions will not be considered.

The process and forms are available on the ARC website ([https://www.usf.edu/undergrad/academic-processes/academic-regulations-committee/index.aspx](https://www.usf.edu/undergrad/academic-processes/academic-regulations-committee/index.aspx)). The forms below are required.


**Drops**

A student may drop courses during the drop/add period. Dropped courses not to appear on the student's transcript. No tuition or fees will be assessed for courses dropped by the fifth day of classes.

To avoid fee liability and academic penalty, the student is responsible for dropping all undesired courses by the end of the Drop/Add period specified at [https://www.usf.edu/registrar/calendars/](https://www.usf.edu/registrar/calendars/). Students are required to attend the first class meeting of courses for which they registered prior to the first day of the term.

Although the University has a mandatory first day attendance policy and faculty may drop students from courses, it is students' sole responsibility to ensure they drop to avoid fee liability. A faculty member's failure to exercise the right to drop a student for failure to attend the first day is NOT University error and is not justification for a refund.

**Withdrawals**

A student may withdraw from courses between the second and tenth week of the semester; these weeks are different for courses in Summer session and alternative calendars. See the Office of the Registrar's webpages for more information ([https://www.usf.edu/registrar/calendars/index.aspx](https://www.usf.edu/registrar/calendars/index.aspx)).

Tuition and fees will not be refunded for any course withdrawals, and the student's academic record will reflect a “W” grade for each course withdrawal. Under specific conditions, consideration for refund of tuition and fees for course withdrawals may be requested using a **Fee Adjustment Request** form ([https://www.usf.edu/registrar/documents/forms/fee-adjust-form.pdf](https://www.usf.edu/registrar/documents/forms/fee-adjust-form.pdf)) accompanied by supporting documentation. Submit a **Fee Adjustment Request** form to the Office of the Registrar ([https://www.usf.edu/registrar/index.aspx](https://www.usf.edu/registrar/index.aspx)) within six months from the end of the applicable term. Students who withdraw may not continue to attend class.

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. 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.

Students should be mindful of the Excess Hour Surcharge Policy when requesting late adds or late withdrawals. See [http://regulationspolicies.usf.edu/regulations/pdfs/regulation-usf4.0102.pdf](http://regulationspolicies.usf.edu/regulations/pdfs/regulation-usf4.0102.pdf).
All undergraduate students enrolled in graduate-level courses will be limited to a total of two course withdrawals while enrolled as a degree-seeking or non-degree seeking student taking graduate courses at USF. Only in extenuating circumstances will approval be granted for more than two course withdrawals. To withdraw from a graduate course after the drop period, submit an ARC Petition (http://www.usf.edu/undergrad/academic-processes/academic-regulations-committee/) to the College of your major.

**Individual Class Withdrawal**

A student who withdraws may receive a grade of “W” up until the posted deadline to withdraw without academic penalty each semester. Summer semester is comprised of three sessions; each session during Summer semester has a separate deadline to withdraw without academic penalty.

Students withdrawals from individual courses are enacted self-service via OASIS after the end of Drop/Add; beginning the sixth day of classes each semester. To enact a total withdrawal, submit a Withdrawal Application to the Office of the Registrar (https://www.usf.edu/registrar/). To be eligible for a 25% refund of registration fees and tuition paid, less building and capital improvement fees, total withdrawals must be requested before the end of the fourth week of Spring or Fall semester (end of the third week in Summer term).

A student who receives financial aid and withdraws or drops courses that result in a refund will have all financial aid grants, scholarships and student loans reimbursed by any refund until those programs are paid in full; this does not include private loans. For more information, visit www.usf.edu/finaid.

Courses from which a student successfully withdraws will reflect a “W” grade on the student’s academic transcript.

**Withdrawals for Active Duty Military**

Any student enrolled in a college credit course shall not incur academic or financial penalties by virtue of performing military service on behalf of our country. Except in cases where the student and faculty member agree that completion is imminent and possible, the University encourages withdrawal and possible eligible refund without academic penalty when a student is performing military service. If the course is no longer offered when the student seeks to resume study, an equivalent course may be selected. If the student chooses to withdraw, the student’s record shall reflect that the withdrawal is due to active military service.

The provisions of this section shall apply to:

1. Students who are currently on active duty with any unit of the United States Armed Forces who receive orders that require reassignment to a different duty station or absence from class for an extended period of time during the semester in which they are enrolled; and
2. Students who are members of a National Guard, Air National Guard, or other military reserve unit who receive orders calling them to active duty for operational or training purposes during the semester in which they are enrolled, excluding any regularly scheduled weekend and annual training duty; and
3. Students who are veterans of the United States Armed Forces and who are recalled to active duty during the semester in which they are enrolled; and
4. Students who enlist in any branch of the United States Armed Forces and whose induction date falls within the semester in which they are enrolled.

Contact the Office of Veteran Success (https://www.usf.edu/student-affairs/veterans/) for assistance at ALN 130 or (813) 974-2291.

**Appeal for Retroactive Withdrawal**

USF System Policy 10-006 Registration Changes Including Course Change, Cancelations, Withdrawals, and Auditing


A student who has an unexpected life event or other extenuating circumstances during a term may request an exception to USF’s dates and deadlines. A retroactive withdrawal may be requested whenever there are circumstances beyond the student’s control, which make it impossible to complete a course. To initiate the appeal process, the student must submit a Petition to the Academic Regulations Committee.
The Academic Regulations Committee (ARC) Petition process occurs at the college level. Students engaging in this process should contact and submit the relevant documentation to the ARC representative in the college of their declared major. It is the student's responsibility to obtain, complete and submit all required documentation required; incomplete petitions will not be considered.

Students should be mindful of the Excess Hour Surcharge Policy (http://regulationspolicies.usf.edu/regulations/pdfs/regulation-usf4.0102.pdf) when requesting late adds or late withdrawals.

Petitions may be approved if the ARC determines that you experienced extenuating circumstances beyond your control of such severity that the physical or mental ability to drop by the drop deadline was impaired. Such circumstances need to be supported by independent, objective and verifiable documentation. Petitions should be submitted as soon as possible in accordance with action requested and within six months of the end of the semester during which the petitionable event occurred. If a petition is submitted outside of that timeframe, it is critical to explain the reason and provide documentation for the delayed request.

All submitted documentation is subject to verification. Submission of false, forged or fraudulent information will result in a referral to the Office of Student Rights and Responsibilities.

When possible, the student is responsible for ensuring that all applicable courses are dropped or withdrawn from before beginning this process. See Instructions:

1. Complete Part 1 of the ARC Petition with (https://www.usf.edu/undergrad/academic-processes/academic-regulations-committee/forms.aspx)

2. Complete Part 2; be sure to indicate the year and term for which you are petitioning. Petitions are limited to one term per petition. Requests for multiple terms (Fall and Spring semester and Summer session) require multiple petitions. Check the appropriate box to indicate whether you are petitioning for a "Late Withdrawal," "Total Withdrawal," or "Withdrawal Limit Exception." Ensure that you complete information in Part 2 for each course included in your petition.

3. Students requesting for withdrawals for medical reasons do not typically need to include instructor documentation forms with their petition, but you should be prepared to obtain these forms if requested by your college's ARC. If requested, for all courses included in your petition, complete Parts 1 and 2 of the Instructor's Documentation form with your information, and have the course instructor fill out Part 3, sign the form and return it to you. If the instructor has left the University, the student may seek assistance from the applicable Department Chairperson.

4. If you are petitioning for a Late Withdrawal, Total Withdrawal or Withdrawal Limit Exception for medical reasons, complete Part 1 of the Medical Documentation Form (PDF), and have Part 2 completed by your physician. The Medical Documentation Form should be returned in a sealed envelope from the physician's office (see instructions on form).

5. All petition requests should be accompanied by a personal statement detailing the nature of your request, and a clear statement of why you feel that you should be granted the requested exception. This statement should include what happened and when it happened, with relevant dates included. You should also include any supporting documentation that can substantiate the claims made in your personal statement.

   a. If you are petitioning to withdraw from select courses in a semester, yet keep other courses, you will need to explicitly address why your situation impacted only those courses to be dropped and not the others.

   b. If you stop attending class and have no documentation addressing what prevented a timely withdrawal from the class, your petition will be denied.

6. Ensure that ALL forms are filled out completely with all the relevant information for your petition type, and that all the proper signatures are obtained. Submit original copies of all the completed forms, your personal statement, and any supporting documentation to the ARC representative in the college of your major (see listing of ARC representatives on the ARC Petition form). Retain copies for your own records.

7. Decisions regarding ARC petitions can be expected within two weeks of submission, if the ARC package is complete.
8. Approved petitions for medical withdrawals will result in a "WC" grade for all applicable courses; "WC" grades denote withdrawals for extenuating circumstances. ARC decisions do not affect fee liability. Students must complete a Fee Adjustment Request through the Office of the Registrar to address fee liability.

9. ARC petition decisions by the College ARC may be appealed to the next level in the college. Final appeals to the college decision can be made to the Office of Undergraduate Studies (https://www.usf.edu/undergrad/) in SVC 2002, (813) 974-4051.

Student Records and Transcripts

Student Academic Records and Transcripts

Students' academic records, including official transcripts, are maintained by the Office of the Registrar and protected under the Family Educational Rights and Privacy Act of 1974 (FERPA). See http://regulationspolicies.usf.edu/regulations/pdfs/regulation-usf2.0021.pdf.

Students may request an official transcript electronically through OASIS or via paper form. See https://www.usf.edu/registrar/resources/transcript.aspx for more information transcript requests and student records.

Education Record

USF System Regulation 2.0021
http://regulationspolicies.usf.edu/regulations/pdfs/regulation-usf2.0021.pdf

The policies and procedures outlined in this Regulation are designed to implement the provisions of the Family Educational Rights and Privacy Act ("FERPA," 20 U. S. C. s.1232g) and Sections 1002.225 and 1006.52, Florida Statutes pursuant to which the University of South Florida (USF) is obligated to inform students and parents of their rights to review and inspect education records, to challenge and seek to amend education records, to control disclosure of education records, and to contact the Family Policy Compliance Office for concerns regarding alleged violations of FERPA or to the appropriate court for violations of privacy if applicable. USF has placed the responsibility for administration of this Regulation with the University Registrar.

The student's USF education record shall not be changed after the student has graduated.

Student Records Policy

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 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.
Release of Student Information

USF System Regulation 2.0021
http://regulationspolicies.usf.edu/regulations/pdfs/regulation-usf2.0021.pdf

The Family Educational Rights and Privacy Act of 1974 (FERPA) helps protect the privacy of student education records. See USF System Regulation 2.0021 - Student Records (http://regulationspolicies.usf.edu/regulations/pdfs/regulation-usf2.0021.pdf) for complete explanation of how USF protects the privacy of student education records.

Students must inform the Office of the Registrar if they wish to limit the disclosure of their education records by changing their privacy status (https://www.usf.edu/registrar/resources/privacy.aspx). Such requests must be received within the first two weeks of the semester and will remain in effect until the student changes their status.

Confidentiality Policy

In the interest of openness and building trust with our students, USF 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:

- The student’s name
- The student's major field of study
- The student's participation in officially recognized activities and sports
- The weight and height of members of athletic teams
- The student's dates of attendance, part-time or full-time status, and degrees and awards received
- The student's photographic image independent of any additional personal identifiers

All other student data is considered to be protected. For more information, see http://regulationspolicies.usf.edu/regulations/pdfs/regulation-usf2.0021.pdf.

Students must notify the Office of the Registrar in writing if they refuse to permit the University to:

1. Include their information and other designated elements in the online student directory.
2. Release directory information about themselves to any third party. Such notification must be received by the Office of the Registrar no later than the end of the second week of classes of the academic term or the student will be deemed to have waived his/her right of refusal until the next academic term. To request confidentiality, go to https://www.usf.edu/registrar/resources/privacy.aspx.

Student Information Changes

Notifications regarding changes to name, residency, and citizenship should be filed promptly using the appropriate form(s) accompanied by verifiable supporting legal documentation with the Office of the Registrar (https://www.usf.edu/registrar/). Change of local, permanent, and emergency contact addresses; name; or other information affecting the student’s permanent academic record may be completed by currently enrolled students by using selecting the appropriate form at https://www.usf.edu/registrar/resources/forms.aspx.

Changes of address may also be completed via OASIS at https://oasis.usf.edu/.
Transcript Request

Transcripts may be released only by authorization of the student. In OASIS, visit the Student tab and select "Student Records" to order a transcript online. Additional ordering options and information are available at https://www.usf.edu/registrar/resources/transcript.aspx. The student must have no hold or financial obligation preventing release of the transcript. NOTE: All holds preventing release of a transcript must be resolved within 30 days of the request, or the order will be cancelled.

Students may also request copies of their official USF transcripts by completing the Transcript Request form (https://www.usf.edu/registrar/documents/forms/transcript-request-form.pdf). By law, a request must include the student's signature and date.

Transcripts may be requested in person Monday - Friday, between the hours of 9:00 a.m. - 4:30 p.m. During non-peak periods, transcripts are normally mailed/ready for pick-up within the same day the request is received.

Explain any special instructions such as "hold for your degree to be posted," "hold for your current term grades to be posted," or "hold for a grade change to be processed." Degrees post to transcripts approximately six weeks after Commencement. If you are currently enrolled, term grades are posted approximately one week after the end of term. See https://www.usf.edu/registrar/calendars/index.aspx for exact date. Check to see if all grades are in OASIS by selecting "Student Records" and "Final Grades" on the Student tab.

To order a transcript by mail, send $10.00 per copy payment by check or money order and the Transcript Request form to:

Office of the Registrar
4202 E. Fowler Avenue, SVC 1034
Tampa, FL 33620-6950

To request a transcript in person, bring $10.00 per copy payment and the Transcript Request form to a USF Cashier's Office or pay online via OASIS.

Official transcripts for students who previously attended New College of USF or participated in the M.D. program of the College of Medicine must be requested directly from those institutions:

New College of Florida
Office of Records and Registration
5800 Bay Shore Road, Building D-115
Sarasota, FL 34243-2109

USF College of Medicine
Office of the Registrar
12901 Bruce B. Downs Blvd., MDC 32
Tampa, FL 33612-3742
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General Course Policies

Academic Credit Hours

USF Policy 10-065 Credit Hours

http://regulationspolicies.usf.edu/policies-and-procedures/pdfs/policy-10-065.pdf

I. PURPOSE & INTENT
Academic credit provides the basis for quantifying the amount of engaged learning time expected of a typical student enrolled in traditional classroom settings, laboratories, studios, internships and other forms of experiential learning, and distance and Correspondence Education.

This Policy is intended to ensure that all credit-bearing courses and programs offered by the University of South Florida System (USF System) meet the requirements of the Federal definition of a credit hour and the Credit Hours Policy Statement issued by the SACSCOC.

II. STATEMENT OF POLICY
Credit hours are a measure of learning, and support a wide range of activities, including the transfer of students from one institution to another, awarding financial aid, and credentialing for employment. Because of the significance of awarding credit hours, an institution is obligated to ensure that credit hours for courses and programs conform to the commonly accepted standards of higher education, as stated in the Southern Association of Colleges and Schools Commission on Colleges (SACSCOC) Federal Requirements 4.9 (Definition of Credit Hour) and the SACSCOC Credit Hours Policy Statement.

In determining the maximum number of credits that may be assigned to a course, the following guidelines apply.

- For courses taught in a “traditional” classroom format in a 15-week semester, the maximum number of credits to be assigned is limited to the weekly number of 50-minute contact periods (or their equivalent) with the instructor. Underlying this statement is an assumption that each 50-minute contact period requires a minimum additional two hours of student work outside of the class involving reading, exercises, etc. Where this assumption does not hold true (as may be the case with some laboratories, for example), then the maximum number of credits may be significantly less than the weekly number of 50-minute contact periods.
For a lecture class, one unit is considered to be one hour of lecture class time and two hours per week of homework. For the typical three-unit class, a student spends three hours per week in class and should do six hours per week of homework. The total number of class contact hours per semester equals the credit hours multiplied by 15 weeks.

- For a laboratory class, the hours per week are considered to be all in class with no outside assignments. Thus, one unit is three hours per week of laboratory time.

- Where a course includes “by arrangement lab hours,” these generally take the place of the hours assigned to homework, since the student is required to use supervised college facilities to do assignments related to homework. An example might be a 3-unit lecture course which requires the student also to work two hours per week in the computer lab. There would be only four hours per week of additional homework required.

- In all cases, but particularly in cases such as online learning where seat time is non-verifiable, credit hours are awarded on the basis of documented student learning outcomes that reflect the amount of academically engaged time for a typical student in a traditional format, and on the basis of documentation of the amount and type of work a typical student is expected to complete within a specified period of academically engaged time. The number of credit hours awarded is based on the number and/or rigor of student learning outcomes, with the higher number of credit hours awarded yielding greater number and/or rigor of outcomes.

### Academic Learning Compacts

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

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

**USF System Policy 10-060 Academic Learning Compacts & Student Learning Outcomes**

http://regulationspolicies.usf.edu/policies-and-procedures/pdfs/policy-10-060.pdf

Student learning outcomes at the University of South Florida are designed for the formative evaluation of programs. They are also a means of gauging the quality of education independent of traditional seat time. Every academic and administrative program at each USF System institution must have an active assessment plan on file in the institutional assessment management system. All undergraduate academic programs must meet the requirements of BOG Regulation 8.016, Academic Learning Compacts. This Regulation requires the ongoing assessment of critical thinking skills, communication skills, and content/discipline knowledge and skills. Institutions may have Academic Learning Compacts (ALC) requirements beyond these three content areas.

Furthermore, in cases where academic programs are delivered in non-traditional modes (off-campus sites, on-line programs, distance/correspondence, etc) student learning outcomes are to be used as the basis for awarding credit hours to courses. USF System has a specific Policy on Credit Hours which can be accessed at http://regulationspolicies.usf.edu/policies-and-procedures/pdfs/policy-10-065.pdf.

### Semester System

USF operates on a semester system. Fall semester begins in August 2018 and Spring semester begins in January 2019. Summer sessions begin in May and July 2019. See the Important Dates & Deadlines at https://www.usf.edu/registrar/calendars/index.aspx.

### 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 in the Exploratory Curriculum Major receive approval from the Office of Academic Advocacy (https://www.usf.edu/undergrad/academic-advocacy). 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.

Class Standing

The classification of a degree-seeking student is based upon the number of semester hours earned. A student’s class is determined by the number of credits they have earned without relation to their GPA.

- Unclassified: Non-degree-seeking student
- 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
- Post Baccalaureate: Baccalaureate degree-holder working on a second undergraduate program or degree

Academic Programs and Progression

Student’s Choice of Catalog

USF System Catalogs - USF System Regulations 10-059
http://regulationspolicies.usf.edu/policies-and-procedures/pdfs/policy-10-059.pdf

I. PURPOSE & INTENT
University of South Florida System (USF System) institutions publish undergraduate and graduate catalogs on each campus. Catalogs are not contracts, but are the source of general information including the USF System, its campuses, community, curricular offerings, degree and admission requirements, academic calendar, and facilities available to students, faculty and staff.

II. STATEMENT OF POLICY
The USF System member institutions reserve the right to change or modify academic requirements, course information, and curricula as authorized by the USF Board of Trustees, Florida Board of Governors or Florida law. Revisions to catalogs will not alter provisions, terms, fees, or requirements under existing University regulations or policies.

The catalogs are revised each academic year according to each respective institution’s faculty council decisions. The catalogs will be updated without notice as degree programs or curricula changes are approved by the appropriate USF System authority, the Florida Board of Governors or Florida law.
In the event of conflict between any provisions in the catalogs and any USF System regulations or policies, the document most currently revised or adopted by the USF Board of Trustees shall prevail.

A degree-seeking student may choose any USF catalog (of the institution in which they are enrolled) published during his/her continuous enrollment. As degree-seeking students will be enrolled over the course of several terms, the catalogs may change. In the event of a conflict, to the extent possible, the University will make every effort to apply the appropriate catalog that protects the interest of the student. However, in the case of policy and program changes, or issues of accreditation and legislative changes, the most current catalog will be applied, if necessary.

The catalogs are published solely on-line at the respective USF institution’s website.

- USF Tampa Undergraduate Catalog - http://ugs.usf.edu/catalogs.php
- USF Tampa Graduate Catalog - http://www.grad.usf.edu/catalog.php
- USF St. Petersburg Undergraduate & Graduate Catalog - http://www.usfsp.edu/catalog/
- USF St. Petersburg Graduate Catalog - http://www.usfsp.edu/catalog/
- USF Sarasota-Manatee Undergraduate & Graduate Catalog - http://usfsm.edu/catalog/

**Continuous Enrollment**

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 a student does not maintain continuous enrollment, the student becomes inactive and must reapply.

If the student cannot meet all of the graduation requirements specified in the catalog of their choice due to decisions and policy changes by the University, course offerings, etc., appropriate substitutions will be determined by the department chairperson 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 not penalize the student.

**Transient Enrollment**

The Office of Admissions (https://www.usf.edu/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 (https://www.usf.edu/registrar/documents/forms/outgoing-transient-student-form.pdf) should be used.

For more information, visit: https://www.usf.edu/undergrad/academic-processes/transient-and-cross-enrollment.aspx

**Degree Program**

A degree program is an organized curriculum leading to a degree in an area of study recognized as an academic discipline by the higher education community as demonstrated by assignment of a Classification of Instructional Programs (CIP) code by the National Center for Educational Statistics (https://nces.ed.gov/ipeds/cipcode/Default.aspx?y=55).

Each degree program shall have a designated faculty effort and instructional resources, and shall include at least one program major, by may have multiple majors. Each degree program is approved at only one degree level.

**Change of Institution**

The University of South Florida System consists of three separately accredited institutions - USF, USF St. Petersburg and USF Sarasota-Manatee. Each Institution has unique polices as well as unique degree and residency requirements. Please note these differences may impact a student’s timeline to graduation.
The USF System Change of Institution Form and Procedures provide a process when a student wishes to change from one USF institution to another. Please see http://ugs.usf.edu/system/change-of-institution/process-procedures.php for the form and process for each University of South Florida institution. Students will need to print the Change of Institution form and meet with an Academic Advisor.

- **Student's Responsibility:**
  - Prints the USF System Change of Institution Request Form from the Undergraduate Studies’ website.
  - Completes, signs and submits the completed form, as per the instructions.
  - Meets with major advisor from the new USF Institution to verify eligibility to enter the College and major.
  - Submits completed form to the new USF Institution academic advisor.

- If the College representative or academic advisor approves the change, the signed form is submitted to the Undergraduate Studies Dean's Office email account: ugs-dean@usf.edu by the College representative or academic advisor. Once approved by the Dean, the form will be sent back to the College representative or academic advisor for processing and notification to the student.

- Changes will be made for the current academic semester and there may be tuition and fee differences at the new USF Institution. These fees may be assessed immediately when switched to the new institution.

- Student will be notified via email once the institution change is made.

**Note:** The IT hold for Academic Integrity will appear when a student’s institution changes to USF Tampa. Students will be enrolled in the Academic Integrity tutorial in Canvas. It takes about an hour to complete the tutorial (there are 5 online modules). Once the tutorial is completed, students need to click the CONGRATULATIONS link after the 5th module in order to remove the IT hold. Students can contact acadintegrity@usf.edu for more information.

**College Policies for Academic Progress**

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

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

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

**Academic Major**

**USF System Regulation 3.038**
[http://regulationspolicies.usf.edu/regulations/pdfs/regulation-usf3.038.pdf](http://regulationspolicies.usf.edu/regulations/pdfs/regulation-usf3.038.pdf)

A major is an organized curriculum offered within a degree program. A major shall be reasonably associated with the academic discipline within the degree program under which it is offered and shall share common core courses with any other majors within the same degree program. The major is the student's primary field of study. Although in some cases the major and the degree program names are synonymous, only the degree program shall be assigned a CIP Code and shall be included in the State University System Academic Degree Program Inventory. The number of credit hours for a major for each degree level shall be established by the USF System member institution in accordance with State regulations and SACSCOC minimum requirements. The degree program majors are coded within the student information system (SIS) and are recorded on both the transcript and the diploma.

An accelerated program allows highly qualified undergraduate students to complete a bachelor's degree and a master's degree in a select few majors on an accelerated timeline. These programs commonly offer a shorter duration to completion of both degrees. Students complete a portion of the required graduate coursework while classified as an undergraduate student and have the coursework count towards both degrees. As soon as the student completes the undergraduate degree requirements, the student is converted to graduate student status, where the remaining graduate requirements are fulfilled. A list of approved accelerated programs within the Honors College can be found at [https://www.usf.edu/honors/accelerated-programs/accelerated.aspx](https://www.usf.edu/honors/accelerated-programs/accelerated.aspx).
Declaration or Change of Major

It 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 96 Majors, 75 Minors, 137 Concentrations, and 29 Certificates to choose from, USF allows 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 curriculum that best matches their interests.

First Time in College (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. See https://www.usf.edu/admissions/freshmen/admission-information/requirements-deadlines.aspx and click on GPA & Test Requirements. Students will not be allowed to register for further credit coursework at the University until they have declared a major or pre-major.

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

Many resources are made available by the University to assist students in making career decisions and choosing their majors. The process for Changing a Major is the same as Declaring a Major. Students are encouraged to visit with their academic advisor and to visit Career Services at https://www.usf.edu/career-services/.

Double Majors & Concurrent Degrees Declaration

USF System Policy 10-505 Degree Progression and Completion Deadlines for Undergraduate Students http://regulationspolicies.usf.edu/policies-and-procedures/pdfs/policy-10-505.pdf

Students are encouraged to complete one baccalaureate degree with options of enriching it with internships, study abroad, research, and other enrichment activities. When appropriate, students can progress on to earn a graduate degree toward their specific career goals. In cases where double majors or concurrent degrees will enhance a student's development, the University will review the request and make a decision as to the appropriateness of the double majors or concurrent degrees to the student's educational and career goals and to the extent the request is within Degree Progression and Completion policy 10-505 (see http://regulationspolicies.usf.edu/policies-and-procedures/pdfs/policy-10-505.pdf). Those students who complete the requirements for a second major must be aware that they will not receive a second degree.

The Degree Progression and Completion policy requires that double majors and concurrent degrees be completed within no more than two additional semesters (10 semesters total) from a student's original projected graduation date and within the Excess Credit Hour (ECHs) threshold (https://www.usf.edu/registrar/resources/excess-hours/index.aspx). The ECHs thresholds for double majors* and concurrent degrees are based on the threshold for the first major or degree plus 30 hours. Students approved for double majors or concurrent degrees will be charged the Excess Hour Surcharge required by the State at the threshold if they do not complete the second major or degree.

*Students are no longer able to pursue a double major between different degree programs (i.e. double majoring in B.A. and B.S. degree programs) if they are not able to complete the degree within 132 credit hours. Students interested in pursuing majors across different degree programs are encouraged to consider the Concurrent Degrees Application.

Further considerations for approving the request for double majors and concurrent degrees will include but not be limited to:

- Student's progression ratio, taking into consideration number of withdrawals and non-applicable coursework.
- Student's GPA, taking into consideration the GPA required for the intended majors.
- Evidence of success in coursework leading to preparation for both majors/degrees, including prerequisites, core requirements, or other preparatory courses.
- Student's having successfully completed at least one semester at USF but before they have earned 96 credit hours.
Please allow up to 4 weeks for processing of applications. For more information, see http://www.usf.edu/undergrad/academic-advocacy/services/double-major-and-dual-degrees.aspx.

Academic Minor

USF System Regulation 03.038 http://regulationspolicies.usf.edu/regulations/pdfs/regulation-usf3.038.pdf

An academic minor is an optional complement to a bachelor’s degree 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. The department may require the same admission or retention standards as required for the 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 but prior to applying for graduation. Students should obtain prior approval with the specific requirements and forms from the college and department in which the minor is offered. Minors are recorded on the transcript and the diploma.

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. Courses used to fulfill the major requirements 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 awarded only in conjunction with applying for and receiving a baccalaureate degree.

Concentration

USF System Regulation 03.038 http://regulationspolicies.usf.edu/regulations/pdfs/regulation-usf3.038.pdf

A concentration is any organized set of courses that is offered as part of a major and enhances or complements the degree program to be awarded in a manner which leads to specific educational or occupational goals, and/or from different disciplines that provide an interdisciplinary focus. Concentrations are defined by the University with the credit-hour length set in accordance with University policy, except that the number of credit hours shall not equal or exceed the number of credit hours established for a major at the same degree level. Each concentration is recorded on the transcript but are not on the diploma.

Each undergraduate concentration conforms to these University requirements:

1. At least 50 percent of the required coursework must be earned from the USF institution awarding the concentration.
2. USF coursework for a concentration must have a minimum GPA of 2.00; some majors/concentrations have higher minimum GPA requirements.
3. Only an undergraduate, degree-seeking student at USF is eligible to pursue a concentration.
4. A concentration can be applied for and received only in conjunction with applying for and receiving a baccalaureate degree.

For more information, see USF 3.007 Degree Requirements: Baccalaureate/Undergraduate http://regulationspolicies.usf.edu/regulations/pdfs/regulation-usf3.007.pdf
Track, Specialization, Cluster, etc.

USF System Regulation 03.038
http://regulationspolicies.usf.edu/regulations/pdfs/regulation-usf3.038.pdf

A Track, Specialization, Cluster, etc. is an area of study within a major or concentration that is less formal and not tracked in the student's record or on the diploma.

Undergraduate Certificate

USF System Regulation 03.038
http://regulationspolicies.usf.edu/regulations/pdfs/regulation-usf3.038.pdf

A certificate is an organized set of courses offered as a distinct area of study that leads to specific educational or occupational goals. Certificates may consist of courses that are part of a major or courses that are created outside of a major. The number of credit hours for a certificate shall be set by the each of the USF System member institutions. 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. Certificates are recorded on the transcript. A certificate of completion is awarded, not a diploma.

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.

Two Degrees (USF Students)

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

In declaring a second degree, the student should consider the Excess Credit Hour Surcharge (https://www.usf.edu/registrar/resources/excess-hours/index.aspx) required by the state for excess credit hours beyond the official limit. Both degrees will be awarded in the same term at the completion of the degrees.

Second Baccalaureate Degree (Transfer Students)

A student who has 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 their second baccalaureate degree. Students must also meet the University's regular graduation, as well as the requirements of the College awarding the degree and the residency requirements. Students should meet with their Academic Advisor to review graduation requirements (https://www.usf.edu/undergrad/students/advising-offices.aspx).
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:

1. Satisfy degree requirements for the five-year Master’s program.
2. Satisfy requirements for the baccalaureate-level program.

Course Attendance and General Classroom Policies

Course Attendance at First Class Meeting

USF System Policy 10-006 Registration Changes Including Course Change, Cancelations, Withdrawals, and Auditing

All instructors teaching undergraduate and graduate courses are required to take attendance on the first day of class and to drop students who do not attend the first day of class. Students who experience extenuating circumstances that are beyond their control and who are unable to attend a first class meeting must notify the instructor via email using the course management system (i.e., Canvas) for that course prior to the first class meeting to request waiver of the first class attendance requirement. Although Instructors are authorized to affect the drop, students are fundamentally responsible for knowing their registration status, and the student must insure that his/her registration status reflects the drop by the end of the drop/add period. For Saturday only courses or courses that begin on a Saturday, students are expected to contact the Registrar’s Office on their respective USF campus to drop the course(s).

USF’s distance learning students must log-in to their course(s) during the first five (5) weekdays from the calendar start date of their online course(s). 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

USF System Policy - Syllabi Policy 11-008
http://regulationspolicies.usf.edu/policies-and-procedures/pdfs/policy-11-008.pdf

A syllabus is an academic agreement that establishes the academic relationship between instructors and students in a course, used as the basis for communication and accountability. It communicates course expectations, organizes information, sets the tone for the learning environment, maps the path of student learning, and provides accountability. A carefully constructed syllabus helps clarify course goals and learning objectives, assessment and evaluation standards, grading policies, and expectations for student and faculty behavior.

The Southern Association of Colleges and Schools Criteria for Accreditation require that a syllabus be placed on file in the department for each course taught and that students must be provided written information about the goals and requirements of each course, the nature of the course content, and the methods of evaluation to be employed.

For more information about the components of a course syllabus, visit https://www.usf.edu/atle/teaching/syllabus.aspx. For the Statement of Policy, see http://regulationspolicies.usf.edu/policies-and-procedures/pdfs/policy-11-008.pdf.
Course Notes and Recording

USF System Policy 10-048
http://regulationspolicies.usf.edu/policies-and-procedures/pdfs/policy-10-048.pdf

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

II. STATEMENT OF POLICY
A. Students may take notes during class sessions and, with the permission of the instructor or as authorized by the Students with Disabilities Services (https://www.usf.edu/student-affairs/student-disabilities-services/) and with the instructor’s knowledge, make a recording of the lecture/presentation. Such notes and recordings may be used for individual or group study, or for other noncommercial purposes reasonably arising from the student’s enrollment.

B. Notes, recordings, handouts and other material provided by the instructor cannot be exchanged or distributed for commercial purposes or for any purpose not related to a student's study or enrollment absent the express written authorization of the instructor.

C. Selling or distributing notes, handouts, etc. without authorization or using them for any commercial purpose without the express written permission of USF and the instructor is a violation of the USF Student Code of Conduct - USF System Regulation 6.0021 (https://www.usf.edu/honors/accelerated-programs/accelerated.aspx).

D. Commercial Activities on the USF Campus: USF Regulation 6.026 (http://regulationspolicies.usf.edu/regulations/pdfs/regulation-usf6.026.pdf) concerning distribution of material and solicitation on campus, prohibit commercial activity on campus with certain expressly enumerated exceptions. Unless authorized by USF in advance and explicitly permitted by the instructor, the sale or taking of class notes and/or recordings constitutes unauthorized commercial activity in violation of the foregoing regulation.

General Attendance

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

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

There are two categories of excused absences for which accommodations will be made:

- **Scheduled 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 they have been treated unfairly with regard to the above may seek review of a complaint through Office of Diversity, Inclusion and Equal Opportunity (https://www.usf.edu/diversity/equal-opportunity/index.aspx).

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 to drop or withdraw for medical reasons (https://www.usf.edu/undergrad/academic-processes/academic-regulations-committee/index.aspx). 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 (https://www.usf.edu/student-affairs/victim-advocacy/index.aspx) or the Counseling Center (https://www.usf.edu/student-affairs/counseling-center/) or Student Health Services (https://www.usf.edu/student-affairs/student-health-services/services/index.aspx) 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 (https://www.usf.edu/undergrad/) who will assist with the process after reviewing the request.

Medical Amnesty (Student Reporting)

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

This Medical Amnesty Policy (http://regulationspolicies.usf.edu/policies-and-procedures/pdfs/policy-30-004.pdf) seeks to diminish fear of University-imposed disciplinary or conduct sanctions in emergency situations due to alcohol or other drug use or misuse.

Any student who qualifies for amnesty under this policy will not be charged with violations of any of the University System Student Codes of Conduct as those Codes relate to consumption and/or use of alcohol and/or drugs. Under this Policy, students who seek or receive emergency medical assistance for themselves or students who seek assistance for another student experiencing an emergency related to the consumption of alcohol and/or other drug use or misuse may qualify for amnesty. Although students who qualify for amnesty may be exempt from the Student Conduct (http://regulationspolicies.usf.edu/regulations/pdfs/regulation-usf6.0021.pdf) process, they may be required to complete educational measures and pay for any incurred cost associated with those requirements.

Early Notification of Instructor Requirement for University Sponsored Activities

The University recognizes the importance of participation in University-sponsored activities such as musical and theatrical performances, athletic competition, and debate. It also recognizes that such participation may result in conflicts with scheduled class times. It is the responsibility of participating students to provide a full list of anticipated conflicting days to instructors by the end of the first week of the term, and directors and advisors of University activity programs have an obligation to assist students with this task. Students are responsible for identifying potential absences specific to a particular class and notifying individual instructors of these conflicts, especially for conflicts with scheduled examinations.

Please note that a general schedule for a team or ensemble does not satisfy this notification requirement. Students should provide instructors with addenda (e.g., end-of-season tournaments, newly scheduled events, or rescheduled events) that result in new conflicts as soon as they are available. Directors and advisors of University activity programs should consult with participating students prior to registration to help them choose courses that do not have excessive anticipated conflicts.

Early Notification Requirement for Observed Religious Days

USF System Policy 10-045
http://regulationspolicies.usf.edu/policies-and-procedures/pdfs/policy-10-045.pdf

STATEMENT OF POLICY

All students, faculty, and staff within the USF System have a right to expect reasonable accommodation of their religious observances, practices and beliefs. The USF System will, at the beginning of each academic term, provide written notice of the class schedule and formal examination periods. The USF System, through its faculty, will make every attempt to schedule required classes and examinations in view of customarily observed religious holidays of those religious groups or communities comprising the USF System’s constituency.
Students are expected to attend classes and take examinations as determined by the USF System. 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. However, students should review the course requirements and meeting days and times to avoid foreseeable conflicts, as excessive absences in a given term may prevent a student from completing the academic requirements of a specific course.

Students are expected to notify their instructors at the beginning of each academic term if they intend to be absent for a class or announced examination, in accordance with this Policy. Students absent for religious reasons, as noticed to the instructor at the beginning of each academic term, will be given reasonable opportunities to make up any work missed. In the event that a student is absent for religious reasons on a day when the instructor collects work for purposes of grading (homework, pop quiz, 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.

If a student believes that an instructor or program has not responded reasonably to a timely notice of expected observance of religious days, they may seek review of a complaint through the University's Office of Diversity, Inclusion, and Equal Opportunity at https://www.usf.edu/diversity/forms/index.aspx.

Final Examinations

USF SYSTEM POLICY 10-005 - Testing and Final Examinations
http://regulationspolicies.usf.edu/policies-and-procedures/pdfs/policy-10-005.pdf

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. The University of South Florida System (USF System) 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 instructor. Although this policy primarily addresses examinations for undergraduate courses, graduate courses with final exams during the examination week should follow the schedule for exams that is provided with the course schedule for that academic term.

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 the USF System that all students facing an examination (of any type) shall have equal notice of said examination. The USF System 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.

Final Course Examinations

The last six (6) days of the Fall and Spring semesters shall be set aside for final examinations and any final examination of a comprehensive nature must be given during this designated period. The period of two hours shall be allotted for each final examination.

1. Exceptions to Final Course Exam: Take-home final examinations, papers, projects, practicums, and competency examinations are exceptions to the above rule and may be scheduled for completion at any time at the discretion of the instructor.

2. Final Exam Matrix: The Final Exam Matrix for the Tampa Main Campus (Matrix) is designated to facilitate a conflict free schedule for greater student success in the exam process. All Tampa Main Campus courses must comply to the Matrix as it is published with no deviations. All make-up exams, either for block exams or the individual exams will be scheduled during the time period allotted for students that require a make-up exam.

3. Conflicts: If a student has a direct conflict of scheduled examinations that are scheduled according to the Final Exam Matrix or the exam schedule available at a USF System Institution, the student may petition the appropriate instructor to reschedule one of the student's examinations. If a student 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, or the student may elect to take all exams on the same day. If a make-up exam is requested, it will be scheduled during the make-up exam time as posted on the Final Exam Matrix.
Reading Days

The two instructional days of the Fall and Spring semester are designated Reading Days for all courses including semester length distance learning courses. Alternate calendar courses may not include designated Reading Days and students electing to take those courses should refer to their syllabus or instructor direction. For more information, see http://regulationspolicies.usf.edu/policies-and-procedures/pdfs/policy-10-005.pdf (p. 2, item B). See Important Dates & Deadlines for designated Reading Days (https://www.usf.edu/registrar/calendars/).

Academic Regulations Committee

Certain academic regulations for the University are managed by the Academic Regulations Committee (ARC) within each college. For specific information, please see https://www.usf.edu/undergrad/academic-processes/academic-regulations-committee/. Each college’s ARC regularly reviews petitions submitted by undergraduate students. Undergraduate students must petition and secure approval from their college’s ARC 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 ARC. Representatives from the college ARC’s also meet formally to review ARC policies and procedures for the University. Each college’s ARC 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 appropriate college Dean or designee within ten business days of the initial decision. Then the Dean of Undergraduate Studies (or the Designee) may hear an appeal.

The University has implemented a statute of limitations on student petitions for retroactive drops and withdrawals. A student will be limited to two calendar years (six academic terms) to submit a petition to their college for retroactive drops and withdrawals; late adds must be requested no later than the second week of the term.

If a student is requesting consideration for financial reimbursement, the student must also submit a Fee Adjustment Request (https://www.usf.edu/registrar/documents/forms/fee-adjust-form.pdf) to the Office of the Registrar within six months of the applicable semester end date and following final petition decision.

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. Detailed information and the appropriate forms may be obtained by visiting the ARC’s website (https://www.usf.edu/undergrad/academic-processes/academic-regulations-committee/). Students will receive notification of the committee’s decision by mail/email.

Academic Integrity of Students

Academic Integrity of Students - USF System Regulation 3.027
http://regulationspolicies.usf.edu/regulations/pdfs/regulation-usf3.027.pdf

PURPOSE & INTENT

Academic integrity is the foundation of the University of South Florida System’s (USF System) 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 academic sanction at any USF System member institution shall affect and be applied to the academic status of the student throughout the USF System, unless otherwise determined by the independently accredited institution.

STATEMENT OF REGULATION

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.
As this Regulation contemplates several levels of administrative or academic review, students are advised to direct emails only to the single designated office identified as responsible for the current level of review. Student’s failure to adhere to this directive or ignoring specific directives provided by an administrator such as the emailing all levels of administration, multiple parties not directly involved, or tangentially involved offices may be interpreted as a waiver of the review/appeal process and a failure to follow university directives.

As the university has both Offices of Undergraduate (https://www.usf.edu/undergrad/) and Graduate Studies (https://www.grad.usf.edu/) with different standards for academic integrity, it is important to reference Section V(D).

For more information, please see the Office of General Counsel Regulations and Policies website http://regulationspolicies.usf.edu/regulations/pdfs/regulation-usf3.027.pdf.

Academic Integrity Tutorial

The Academic Integrity Tutorial is a requirement for all who enroll as a degree-seeking student at USF, whether they are First Time In College (FTIC) or a Transfer student. The purpose of the tutorial is to prepare each new USF student for his/her academic work at USF and beyond with basic understanding about the need for integrity in all areas of scholarship and research. It also informs students about the Academic Integrity Policy at USF.

If a student does not pass or complete the tutorial, an IT hold will be placed on the student’s account for the next semester’s registration period. Every new USF student and all Change of Institution students must complete the AI Tutorial before classes begin and achieve an 80% passing rate. Students may take it as many times as needed to pass it.

To complete the tutorial - Go to Canvas and use your USF NetID and password to log in. Choose “Academic Integrity Tutorial” from your Courses list.

- There are 5 online modules.
- It takes about an hour to complete all 5 modules.
- Click the CONGRATULATIONS link at the end of the 5th module to remove the IT hold on your record.

QUESTIONS: Contact academicintegrity@usf.edu
VIEWFAQs: https://www.usf.edu/ethics/documents/academic-integrity-tutorial.pdf
VIEW ACADEMIC INTEGRITY VIDEO: https://www.youtube.com/watch?v=MFrpToQ2c&feature=youtu.be

Academic Grievance Procedures for Students

Academic Grievance Procedure for Students - USF System Policy 10-002
http://regulationspolicies.usf.edu/policies-and-procedures/pdfs/policy-10-002.pdf

PURPOSE & INTENT

The purpose of this Policy is to provide all undergraduate and graduate students taking courses within the USF System an opportunity for objective review of facts and events pertinent to the cause of the academic grievance.

STATEMENT OF POLICY

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

In the case of Academic Integrity violations, the appeal or grievance of a decision or academic action regarding Academic Integrity is contained in Academic Integrity of Students, USF System Policy 3.027 (http://regulationspolicies.usf.edu/regulations/pdfs/regulation-usf3.027.pdf).

For more information, please see the Office of General Counsel Regulations and Policies website http://regulationspolicies.usf.edu/policies-and-procedures/pdfs/policy-10-002.pdf.
Disruption of Academic Process

USF System Regulation 3.025

PURPOSE & INTENT
Disruptive students in the academic setting hinder the educational process. Although disruptive student conduct is already prohibited by the University of South Florida System (USF System) Student Code of Conduct and any person may make a direct referral regarding student conduct to the Office of Student Rights and Responsibilities (OSRR) (https://www.usf.edu/student-affairs/student-rights-responsibilities/index.aspx) at any time for a conduct review and possible university wide sanction. This Academic Disruption Regulation provides the steps an Instructor may take to immediately address a student disrupting a class or academic setting including restricting a student from class, assigning an academic sanction or other immediate sanction. This is considered an Academic process and provides for academic sanctions. An Instructor may/must make additional referrals to OSSR for a more comprehensive review and additional conduct sanctions which are considered separate from the Academic process.

STATEMENT OF REGULATION
This Regulation provides a mechanism for the Instructor to ensure a positive academic environment. Although academic discussion may include disagreement with the course Instructor during times when the Instructor permits discussion, it is not in itself disruptive behavior and is not prohibited; the Instructor sets the parameters for classroom interaction.

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.

Misconduct occurring on premises of all institutions of the USF System which adversely affects the University community and/or the pursuit of its mission is already prohibited by the Student Code of Conduct (http://regulationspolicies.usf.edu/regulations/pdfs/regulation-usf6.0021.pdf) and will be handled by those procedures.

For more information, please see the Office of General Counsel Regulations and Policies website http://regulationspolicies.usf.edu/regulations/pdfs/regulation-usf3.025.pdf.

Grading Policies

Grades and Progress Towards Degree Requirements

The University is interested in each student making reasonable progress towards their 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 the student’s best interest to re-evaluate educational goals with an academic advisor in the college of the student's major. If the student’s poor academic performance has resulted from extenuating circumstances, or if after a period of time the student has gained adequate maturity and motivation, the student may petition the Academic Regulations Committee for permission to re-enroll. See https://www.usf.edu/undergrad/academic-processes/academic-regulations-committee/ for information on petitioning.
Grading System

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

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

<table>
<thead>
<tr>
<th>Plus/Minus Grades</th>
<th>Quality Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>A+</td>
<td>4.00</td>
</tr>
<tr>
<td>A Excellent</td>
<td>4.00</td>
</tr>
<tr>
<td>A-</td>
<td>3.67</td>
</tr>
<tr>
<td>B+</td>
<td>3.33</td>
</tr>
<tr>
<td>B Good</td>
<td>3.00</td>
</tr>
<tr>
<td>B-</td>
<td>2.67</td>
</tr>
<tr>
<td>C+</td>
<td>2.33</td>
</tr>
<tr>
<td>C Average</td>
<td>2.00</td>
</tr>
<tr>
<td>C-</td>
<td>1.67</td>
</tr>
<tr>
<td>D+</td>
<td>1.33</td>
</tr>
<tr>
<td>D Poor</td>
<td>1.00</td>
</tr>
<tr>
<td>D-</td>
<td>0.67</td>
</tr>
<tr>
<td>F</td>
<td>0.00</td>
</tr>
<tr>
<td>FF Failure</td>
<td>0.00</td>
</tr>
<tr>
<td>IF Incomplete</td>
<td>0.00</td>
</tr>
<tr>
<td>MF Missing grade</td>
<td>0.00</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Other Indicators</th>
<th>Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td>I</td>
<td>Incomplete</td>
</tr>
<tr>
<td>IU</td>
<td>Incomplete grade changed to</td>
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<tr>
<td></td>
<td>unsatisfactory</td>
</tr>
<tr>
<td>M</td>
<td>No grade submitted by instructor</td>
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<tr>
<td>MU</td>
<td>Missing grade changed to</td>
</tr>
<tr>
<td></td>
<td>unsatisfactory</td>
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<tr>
<td>N</td>
<td>Audit</td>
</tr>
<tr>
<td>NC</td>
<td>Not counted transfer coursework</td>
</tr>
<tr>
<td>NG</td>
<td>No grade equivalent for transfer</td>
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<tr>
<td></td>
<td>coursework</td>
</tr>
<tr>
<td>NR</td>
<td>Missing grade that is not</td>
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<td>resolvable</td>
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<tr>
<td>R</td>
<td>Repeat transfer coursework</td>
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<tr>
<td>S</td>
<td>Satisfactory</td>
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<td>U</td>
<td>Unsatisfactory</td>
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<tr>
<td>W</td>
<td>Withdrawal from course without</td>
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<td></td>
<td>penalty</td>
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<td>WC</td>
<td>Withdrawal for extenuating</td>
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<td></td>
<td>circumstances</td>
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<tr>
<td>Z</td>
<td>Continuing registration</td>
</tr>
</tbody>
</table>

Note: The grade of "C-" will satisfy specified minimum requirements for the State Mandated Communication and Computation Requirements courses, General Education, and the common prerequisites unless otherwise specified in the Catalog.

"I" Grade Policy

An "I" grade indicates incomplete coursework and may be awarded to undergraduate students. Undergraduate rules apply to non-degree-seeking students. An incomplete may be awarded to an undergraduate student only when a small portion of the student’s work is missing and only when the student is otherwise earning a passing grade. The instructor will be required to complete the I-grade contract online when posting the semester grade at the end of the term, identifying the remaining coursework to be completed, the student’s last day of attendance, and the percent of work accomplished to this point. This online contract will be automatically sent to the student’s email and to the Office of the Registrar.

Until removed, the “I” is not computed in the GPA for undergraduate students. The time limit for removing the “I” is to be set by the instructor of the course; this time limit may not exceed two semesters. "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, they 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 should not re-register for courses in which they are only completing previous course requirements to change an “I” grade; 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

Certain courses have been designated as S/U courses. The “S” and “U” grades are used to indicate the student's final grade. These S/U only courses are identified with (S/U only) after the course definition in this catalog.

Mechanism for Assigning S/U Grades

“S” and “U” grades are not computed in the student’s GPA. The method by which a student receives an “S” or “U” grade in an option course will consist of the following:

- 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 they wish to take the course on an S/U basis.
- 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:
  - Letter grade, A, B, C, or C- shall be equivalent to a letter grade of “S.”
  - Letter grades D or F shall be equivalent to a letter grade of “U.”

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 the State Mandated Communication Requirement and Computation Requirement may not be taken on an S/U basis.
4. Courses to satisfy the B.A. foreign language requirement may not be taken on an S/U basis.
5. 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.

Grade Point Average

The University uses the quality points in the Grading System. 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 calculated 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, WC, Z" and courses that have a repeat indicator of “E” on the academic transcript 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 an University-approved repeatable course. “D, F, FF, IF and MF” 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 then earns a “C” or higher on a subsequent enrollment, the new grade is not computed in the GPA unless the Grade Forgiveness Policy is applied.
Mid-Term Grades

USF System Policy 10-504 (http://regulationspolicies.usf.edu/policies-and-procedures/pdfs/policy-10-504.pdf)

PURPOSE & INTENT
The University of South Florida System (USF System) is committed to student success and providing the necessary information to enable students to manage their academic progress. This Policy is one of many university initiatives directed at assisting students in effectively meeting their academic goals.

STATEMENT OF POLICY
It is the student's responsibility to be aware of their academic standing and grade status in all courses. In an attempt to assist the student in evaluating academic status mid-term, the University requires Instructors to submit midterm grades electronically for each student enrolled in 1000, 2000, 3000 and 4000 level courses. Instructors are not required to report midterm grades for alternate calendar courses, study abroad, directed studies, internships, practicum, field experiences, directed research, undergraduate research, independent studies, and other courses that do not follow the normal course schedule for the academic term; however, it is expected that instructors will provide feedback to students regarding progress at an appropriate midpoint for the course.

PROCESS STEPS
The Midterm Grade Reports are submitted after Week 7 or, for summer courses, soon after the midpoint of the time period that the course is conducted. The purpose of the Midterm Grade Report is to provide students in 1000, 2000 and 3000 level courses with information on whether they are making sufficient progress toward meeting the course requirements. This information is available to students in OASIS as a progress report for all students in Lower Level and early Upper Level courses. This Early Warning System provides midterm grade information that assists students and their advisors in determining if academic progress is sufficient in the course at a time where the student may be permitted to drop the course (although beyond the drop/add period resulting in fee liability) and receive a "W" for the course. This is an academic action only and does not support any financial refund or adjustment and students will remain responsible for all applicable registration fees for the course(s). The academic action will permit a "W" grade to reflect on the student's permanent academic record. Students who drop may not continue attending class. Drop deadlines for each semester and summer sessions are listed in the Academic Calendar and are published in the USF Schedule of Classes.

Grade Forgiveness Policy

USF's grade forgiveness policy permits a student to repeat a course and have the repeated grade computed in the cumulative grade point average (GPA) in place of the original grade, providing the repeat grade is posted as "D -" or higher (exception - see Honors at Graduation within this section) and is higher than the first grade. Normally, grade forgiveness may only be applied to a specific course that a student chooses to repeat. 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.

No course taken on the S/U grade basis may have the grade forgiveness applied. Similarly, the grade forgiveness policy cannot apply to any course in which the grade of "FF" has been recorded.

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

1. Complete a Grade Forgiveness Request form for each course to be repeated (https://www.usf.edu/registrar/documents/forms/grade-forgiveness.pdf).
2. Adhere to the following conditions:
   a. A limitation of applying grade forgiveness to three USF courses with no more than one repeat per course.
   b. Once you utilize grade forgiveness, it cannot be rescinded.
   c. With prior approval of the college dean, a course different from a course on the approved list may be substituted in the following cases:
      i. The substitute course is a change in prefix, number, hours, or title, but not a substantive change in content from the original course.
      ii. The substitute course replaces a course no longer offered by the institution.
      iii. The substitute course was approved by the Director of Students with Disabilities Services (https://www.usf.edu/student-affairs/student-disabilities-services/) and the Dean of Undergraduate Studies (https://www.usf.edu/undergrad/) as an appropriate alternative for a student with disabilities.
D. The repeated course must be taken under the standard grading system (A - F) and the latest grade must be posted as "D -" or higher (grades of S/U are not permitted) and be higher than the first grade.

E. All grades remain on the transcript. The original course grade will be annotated with “E” to indicate that the course has subsequently been repeated and the original grade is not computed in the GPA.

F. Individual colleges may have further restrictions; therefore, the student should consult with your college.

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

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

### Academic Standing Policies

#### Good Academic Standing

Undergraduate students are expected to maintain a 2.00 or higher cumulative USF grade point average (GPA). Students are in good standing if they meet the minimum GPA standards based on GPA hours. A student must be in good academic standing in order to graduate.

Students on probation or suspension are not considered to be in good academic standing.

#### Academic Probation, Dismissal, or Suspension

The first time an undergraduate student’s USF grade point average (GPA) falls below a cumulative 2.0, the student will be placed on academic probation. From the beginning of academic probation, the student must maintain at least a 2.0 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 you are removed from probationary status. You may remain on academic probation indefinitely as long as you maintain a GPA of 2.0 or greater each semester. If at any time while on academic probation, the student’s semester GPA falls below a 2.0, you will be academically dismissed from the University. Once academically dismissed, you may only return to USF under the University’s Academic Renewal Policies. If academically dismissed from USF, you may not return to USF as a non-degree seeking student.

First year, first time in college (FTIC) students may be granted a one-time only academic dismissal deferment, allowing an additional semester of enrollment. Students will work with the Office of Academic Advocacy (https://www.usf.edu/undergrad/academic-advocacy/) to create a plan for academic success in the deferred semester. It should be noted that deferring academic dismissal will not extend financial aid canceled due to poor academic performance.

The determination and notification of probationary status or academic dismissal is made by the Office of the Registrar; academic standing is noted on the student's transcript. 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.

Once a student’s semester and USF GPA is at or above 2.0, the academic probation status will be removed.

If a student is academically dismissed or falls below a 2.0 GPA from USF and subsequently receives a baccalaureate degree from another four-year institution, that student, when accepted to the University with the post-baccalaureate status, will have his/her academic standing updated.

For detailed information on the Academic Integrity of Students policy, see USF System Regulation 3.027 at http://regulationspolicies.usf.edu/regulations/pdfs/regulation-usf3.027.pdf.
Reinstatement

Students placed on Academic Dismissal may only return to USF under the University's Academic Renewal policies (https://www.usf.edu/undergrad/academic-processes/academic-regulations-committee/reinstatement.aspx). Academic Renewal allows students previously dismissed 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 their grade point averages (GPAs). To be eligible for academic renewal, the student must select a major in which they will graduate according to the degree progression policy. 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 all other undergraduate students.


If academically dismissed from USF a student may not return to USF as a non-degree seeking student.

Undergraduate Dismissal Policy

Individual undergraduate programs may have stricter guidelines listed in the University catalog. Students can be dismissed from an undergraduate program by the College Dean for the following reasons:

1. Failing to meet professional standards of the discipline,
2. Denied reinstatement after academic suspension,
3. Being suspended for the third time.

Appeal of Dismissal

An Undergraduate degree-seeking student may appeal a dismissal in writing to the Provost (or designee).

For more information on the Academic Integrity of Students, see USF System Regulation 3.027 at http://regulationspolicies.usf.edu/regulations/pdfs/regulation-usf3.027.pdf.

Non-Degree Students Academic Standing

A student who is not seeking a degree while at USF, but enrolls in classes is classified as a Non-Degree Student. Although not seeking a degree, such a student is subject to the same Academic Warning, Academic Probation, Academic Suspension, and Reinstatement policies as a degree-seeking student by level of courses in which the student enrolled.
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 meet the following criteria:

- Complete 12 hours of graded (A-F) USF coursework with no Incomplete, Unsatisfactory and/or W grades during the semester.
- Earn a semester GPA in USF coursework, as designated by the College of their major, as follows:
  - College of Arts and Sciences = 3.9 GPA
  - College of Behavioral and Community Sciences = 3.9 GPA
  - Muma College of Business = 3.9 GPA
  - College of Education = 3.9 GPA
  - College of Engineering = 3.9 GPA
  - College of Nursing = 3.9 GPA
  - College of Public Health = 3.9 GPA
  - College of the Arts = 3.9 GPA
  - Office of Undergraduate Studies = 3.9 GPA
  - Academic Support and Achievement = 3.9 GPA

If a student is coded in two undergraduate majors from two different colleges, the student may be honored with Dean's List from each college, presuming the student meets the required GPA threshold for each individual college.

Dean's List is determined at the end of the semester, after grades are posted. If an Incomplete grade is changed after grades processing is finalized, the student will not retroactively receive Dean's List designation.

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) credit hours of graded USF coursework completed in the semester and the recommendation from that office, to be confirmed by the Dean of the college of the student's major.

The Dean of the College in which the student is majoring or the Dean of Undergraduate Studies, for students currently enrolled in an exploratory curriculum, will recognize this academic honor. Students who are eligible should contact their College Advising Office or Students with Disabilities Services for information.

Students are eligible to earn the Dean's List designation only once for the entire summer and intersession semesters.

Academic Record

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

Academic Renewal

https://www.usf.edu/undergrad/academic-processes/academic-regulations-committee/reinstatement.aspx

The Academic Renewal policy allows students previously dismissed from the University or former students returning with a USF grade point average (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 (ARC) Committee, have portions of their academic record excluded from calculation of their GPAs.
To be eligible for academic renewal, the student must select a major in which they will graduate according to the degree progression policy. The entire academic record, however, will continue to be reflected on your transcripts even though a selected portion will not be counted in your GPA. 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. Students returning to the University under academic renewal may incur excess hours and associated monetary penalty.

**Academic Renewal 1 (AR-1)**

Students who have been academically dismissed or former students returning with a USF grade point average (GPA) below 2.00 may petition the Academic Regulations Committee (ARC) to return to the University under AR-1. A student will be considered for reinstatement to the University under academic renewal 1 after completing all requirements for the Associate of Arts degree or equivalent (including General Education, State Communication and Computation Requirements) at a two- or four-year college other than USF. Academic Renewal 1 students will enter USF as an upper-level student and their USF GPAs will be calculated from that point forward. While AR-1 is required for students who have earned less than 60 credit hours, it is not restricted to those students. In order to graduate following re-admission under AR-1, all campus and major residency and degree requirements must be met.

Students must:

1. Complete the AA degree. Official transcripts must be received by the Office of Admissions.
2. Meet with the academic advisor in the major they intend to pursue upon return and complete the Academic Advising Record for Reinstatement Through Academic Renewal 1 or 2 form.
3. Complete the Reinstatement After Academic Dismissal form, and check the box for “AR1”.
4. Write personal statements addressing why they should be considered for reinstatement, how they have overcome specific barriers that previously affected academic success and a clear rationale for pursuit of the selected major.

Forms are available at [https://www.usf.edu/undergrad/academic-processes/academic-regulations-committee/forms.aspx](https://www.usf.edu/undergrad/academic-processes/academic-regulations-committee/forms.aspx).

**Academic Renewal II (AR-II)**

Academic Renewal II is available to students who were academically dismissed or former students returning with a USF grade point average (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, after a break in USF enrollment for a full academic year (fall, spring, and summer). Students may choose to complete major prerequisites at a non-USF institution during this time, but are not required to do so. Students who choose to take courses at a non-USF institution should meet with the academic advisor of their intended USF major prior to enrolling in courses elsewhere. Following readmission under Academic Renewal II, students will have their USF GPA calculated from that point forward. In order to graduate, following readmission under ARII, all campus and major residency and degree requirements must be met.

Students must:

1. Official transcripts must be received in the Office of Admissions if student was enrolled at another institution during their year away from USF.
2. Complete the Academic Advising Record for Reinstatement Through Academic Renewal I or II form with the academic advisor in the major they intend to pursue upon return.
3. Complete the Reinstatement After Academic Dismissal form, and check the box for “ARII”.
4. Write personal statements addressing why they should be considered for reinstatement, how they have overcome specific barriers that previously affected academic success and a clear rationale for pursuit of the selected major.

Forms are available at [https://www.usf.edu/undergrad/academic-processes/academic-regulations-committee/forms.aspx](https://www.usf.edu/undergrad/academic-processes/academic-regulations-committee/forms.aspx).

Submit the Reinstatement Petition packet (steps 1 through 4) to the Academic Regulations Committee (ARC) representative in the College of the major they intend to pursue upon return to USF.
Academic Renewal will only be applied to a student’s record one time at USF. Students readmitted under academic renewal 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. Students returning to the University under Academic Renewal may incur excess hours and associated monetary penalty. For more information, see [https://www.usf.edu/undergrad/academic-processes/academic-regulations-committee/reinstatement.aspx](https://www.usf.edu/undergrad/academic-processes/academic-regulations-committee/reinstatement.aspx).

General Education Requirements and Lower-Level Course Policies

General Education State Requirements

[https://www.flbog.edu/documents_regulations/regulations/8_005GeneralEducationCore_final.pdf](https://www.flbog.edu/documents_regulations/regulations/8_005GeneralEducationCore_final.pdf)

Satisfactory completion of general education requirements consists of completing 36 hours of general education, where 21 hours come from:

1. 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 English Language writing skills through multiple assignments (State Communication Requirement; formerly known as Gordon Rule). Students awarded college credit in English based on their demonstration of writing skills through dual enrollment, advanced placement, or international baccalaureate instruction shall be considered to have satisfied this requirement to the extent of the college credit awarded.

2. Six (6) semester hours of mathematics coursework at the level of college algebra or higher (State Computation Requirement; formerly known as Gordon Rule). Applied logic, statistics and other computation-based coursework that may not be offered by a mathematics department may be used to fulfill three (3) of the six (6) hours required by this section. Students awarded college credit based on their demonstration of mathematics skills at the level of college algebra or higher through dual enrollment, advanced placement, or international baccalaureate instruction shall be considered to have satisfied this requirement to the extent of the college credit awarded.

3. For students entering the University as a first-time-in-college student beginning Fall term 2015, at least one (1) course from each of the general education subject areas listed below in this section. These courses comprise the general education core as required per section 1007.25(3), Florida Statutes.

   (1) One of the following courses in Communication:

      - ENC X101 English Composition I; or
      - A course with an ENC prefix for which ENCX101 is a direct prerequisite.

   (2) One of the following courses in Humanities:

      - ARH X000 Art Appreciation; or
      - HUM X020 Introduction to Humanities; or
      - LIT X000 Introduction to Literature; or
      - MUL X010 Introduction to Music Literature/Music Appreciation; or
      - PHI X010 Introduction to Philosophy; or
      - THE X000 Theatre Appreciation.

   (3) One of the following courses in Mathematics:

      - MAC X105 College Algebra; or
      - MAC X311 Calculus I; or
      - MGF X106 Liberal Arts Mathematics I; or
      - MGF X107 Liberal Arts Mathematics II; or
      - STA X023 Statistical Methods;

      - A mathematics course for which one of the above general education core course options in mathematics is a direct prerequisite.
(4) One of the following courses in Natural Sciences:
- AST X002 Descriptive Astronomy; or
- BSC X005 General Biology; or
- BSC X010 General Biology I; or
- BSC X085 Anatomy and Physiology I; or
- CHM X020 Chemistry for Liberal Studies; or
- CHM X045 General Chemistry I; or
- ESC X000 Introduction to Earth Science; or
- EVR X001 Introduction to Environmental Science; or
- PHY X020 Fundamentals of Physics; or
- PHY X048 General Physics with Calculus; or
- PHY X053 General Physics I; or
- A natural science course for which one of the above general education core course options in natural science is a direct prerequisite.

(5) One of the following courses in Social Sciences:
- AMH X020 Introductory Survey Since 1877; or
- ANT X000 Introduction to Anthropology; or
- ECO X013 Macroeconomics; or
- POS X041 American Government; or
- PSY X012 Introduction to Psychology; or
- SYG X000 Principles of Sociology.

NOTE: Students who transfer into a state university or between state universities shall be required to meet the above general education core requirements if the students were classified as first-time-in-college at their original postsecondary institution Fall Term 2015 and thereafter. Any course accepted by an institution in the Florida College System or State University System as meeting the general education core at that institution shall be accepted as meeting the core requirements at all institutions. All credit earned by other transfer students shall be evaluated by the receiving institution on a course-by-course basis to determine core equivalency. Credit earned through an acceleration mechanism in Section 1007.27, Florida Statutes and Board of Governors Regulation 6.006, will meet the related general education core course requirement.

Board of Governors Basic Requirements established by Florida state law and the Board of Governors Regulation 6.017
http://www.flbog.edu/documents_regulations/regulations/6%20017%20%202014_9_19CriteriaforAwardingBaccalaureateDegree.pdf

Board of Governors Basic Requirements established by Florida state law and the Board of Governors Regulation 8.005
http://www.flbog.edu/documents_regulations/regulations/8_005GeneralEducationCore_final.pdf

**USF-Tampa Enhanced General Education Curriculum**

The remaining fifteen (15) hours of a student's required thirty-six (36) general education hours are fulfilled by completing USF-Tampa's Enhanced General Education curriculum. It was created to provide a more relevant, coherent, rigorous and student-centered curriculum for intentional learners. The curriculum integrates the values of general education through all levels of the undergraduate experience and is designed to develop baccalaureate graduates who have well-rounded intellectual and practical skills, personal and social responsibility, and integrative and applied learning experiences.
Students must receive a minimum grade of C- in each course that is used to fulfill any requirement in the general education curriculum. S/U grades are not acceptable for general education courses. Those courses completed satisfactorily and applied to meet general education requirements must have an overall GPA of 2.0. Courses may be counted for both the major AND the Enhanced General Education requirements.

All general education courses at USF-Tampa teach critical and analytical thinking, problem solving, and written communication. A student is expected to take a minimum of three (3) credit hours in each of the following areas:

1. **Creative Thinking** - Students will:
   - Demonstrate responsiveness within an established disciplinary context to new information, experiences, and ideas through a process of re-evaluating the ideas and/or approaches.
   - Create an original contribution within a specific discipline.
   - Evaluate the limitations imposed on any new approach or solution within a discipline to propose original contributions to problems.
   - Synthesize disparate or conflicting thoughts when evaluating questions/problems to form cohesive and collaborative solutions.
   - Break Down complex problems to examine, propose, and support potential solutions, even if those solutions deviate from acceptable, mainstream solutions.

2. **Information & Data Literacy** - Students will:
   - Use research tools and indicators of authority to determine the credibility of sources, while identifying any legal and ethical restrictions placed on the use of information.
   - Critically interpret quantitative evidence (such as graphs, tables, charts) in order to identify false claims, incorrect use of evidence, or contradictory statements.
   - Contribute to scholarly conversations using discipline-appropriate communication in different modalities, such as local online communities, guided discussions, undergraduate research journals, and conference presentations/poster sessions.
   - Revise submitted coursework by integrating new sources of information and determining relevance of existing sources.
   - Critically compare and contrast opposing claims regarding the same fact or hypothesis, when the various sides are credible according to discipline-specific indicators of authority.
   - Summarize the key changes in scholarly perspective over time on a particular topic within a specific discipline.
   - Formulate questions for research based on information gaps or on reexamination of existing, possibly conflicting, data, then use the questions as a guide to organize information in meaningful ways.

3. **Human & Cultural Diversity** - Students will:
   - Demonstrate the ability to see issues from the perspective(s) of other groups/cultures by describing the values and communication styles found in groups different from one's own and the way in which those differences can affect styles of verbal and nonverbal communication.
   - Define personal values and beliefs using appropriate language and communication methods that consider others' points of view and respect differences.
   - Analyze how diversity affects interactions with major societal institutions (such as health care, criminal justice, education, employment, voting, military) from contemporary and/or historical perspectives.
   - Weigh options/planned actions (such as policies and practices) to formulate possible solutions to reduce inequality and disparities in access and success in major societal institutions (such as health care, criminal justice, education, employment, voting, military).
   - Analyze the ethical, social, and environmental challenges of global systems to formulate possible solutions regarding international cooperation and collaboration.
4. Ethical Reasoning & Civic Engagement - Students will:
   - Demonstrate the capacity to collect data within and apply explanatory and predictive models to local communities.
   - Connect and extend knowledge (facts, theories, etc.) from their own academic fields of study to civic engagement and their own participation in civic life, politics, and government.
   - Demonstrate the ability to comprehend, express, and adapt to ideas based on others’ perspectives.
   - Work across and within community contexts to achieve a civic aim.
   - Independently and accurately apply ethical perspectives and concepts to ethical questions or civic projects as appropriate and demonstrate the ability to consider the full implications of this application.
   - Demonstrate an ability to recognize ethical and professional responsibilities.

5. High Impact Practice - Students will:
   - Engage in meaningful critical reflection in required coursework.
   - Under professional oversight, utilize contextually appropriate behaviors, tools, techniques and/or dispositions.
   - Integrate discipline-specific knowledge into the contextualized experience.
   - Synthesize discipline-appropriate learning via a culminating assignment.

**NOTE:** Some courses in the High Impact Practice area may only have specific sections that count towards the general education requirement. Please always refer to the current course schedule to make sure you are registering for a section that counts towards the Enhanced General Education requirements.

**State Communication Requirement and State Computation Requirement**

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:

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 communication requirement of the section. These course designations shall be submitted to the Statewide Course Numbering System (SCNS). An institution to which a student transfers shall accept courses so designated by sending institution as meeting the communication requirements outlined in this section.

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.

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 the requirements in subsections 6.017(2), to the extent of the college credit awarded.

Students must achieve a proficiency level of at least a C- in the required writing and math courses in order to receive credit. Courses to satisfy the Communication and Computation requirements may not be taken on an S/U basis. Please visit USF’s course inventory website at https://www.systemacademics.usf.edu/course-inventory/ to search for courses that meet these requirements. The attribute for Communication is 6ACT and for Computation is 6AMT.

Note: The Communication and Computation Requirements are considered met for any student entering the University with an A.A. from a Florida College System institution. CLEP general/subject examinations in Mathematics, Calculus, College Algebra, College Algebra/Trigonometry, and Trigonometry may satisfy this requirement. See http://www.flbog.edu/documents_regulations/guidelines/ArticulationRegulation.pdf 6A-019.024 and 6A-10.030.
First Year Composition

All first-time-in-college (FTIC) students are required to take First Year Composition (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 ENC 1101, he/she must repeat it before proceeding to ENC 1102. Students should normally take these courses during their freshman year, but these courses are in 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 does not 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 First Year Composition requirement with credit transferred from another institution or those with appropriate AP or IB English credit.

Certification Requirements Associate in Arts

USF System Regulation 3.019

http://regulationspolicies.usf.edu/regulations/pdfs/regulation-usf3.019.pdf

All students must satisfy the General Education Requirements of USF and must satisfy the requirements listed in section 1007.25, Florida Statutes and in State Board of Education Rule 6A-10.030, prior to receiving an Associate in Arts Certificate.

1. To receive the Associate in Arts, the student must complete sixty (60) hours of university credit; at least twenty (20) of the last thirty (30) credit hours or a total of thirty-six (36) credit hours must be completed at USF. The minimum grade point average must be 2.0 based on work attempted at USF. In addition, a transfer student must have a GPA of 2.0 or higher when combined with transfer work accepted and evaluated by the USF Office of Admissions. Physical Education and military science credits do not count toward the Associate in Arts Certificate. In addition, a transfer student must have a GPA of 2.0 or higher when combined with transfer work accepted and evaluated by the USF Office of Admissions. Physical Education and military science credits do not count toward the Associate in Arts Certificate. All students must satisfy the General Education Requirements of USF and must satisfy the requirements listed in section 1007.25, Florida Statutes and in State Board of Education Rule 6A-10.030, prior to receiving an Associate in Arts Certificate.

2. Beginning with students initially entering a Florida College System institution or State University System institution in 2014-2015 and thereafter, coursework for an Associate in Arts degree shall include demonstration in competency in a foreign language pursuant to Florida Statute http://www.leg.state.fl.us/Statutes/index.cfm?App_mode=Display_Statute&URL=1000-1099/1007/Sections/1007_262.html (Also known as USF’s FLENT requirement).

3. To apply online for an Associate in Arts Certificate, please visit the “Apply for Graduation” website. The deadline to apply for a certificate in each semester is stated in the Academic Calendar in the catalog and on the “Apply for Graduation” website.

4. The Associate in Arts Certificate must be awarded prior to the term that the student becomes eligible for the baccalaureate degree.

5. 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.
6. Any incomplete grades shown on the permanent record of an Associate in Arts applicant at the time grades are processed will be treated as an "F" in the calculation of grade point average. Transfer students who completed a substantial portion of the Associate in Arts degree requirements at another institution in the Florida College System will be encouraged to notify that institution of the additional USF credits that may be transferred to that institution towards conferral of that degree. If the former institution will not confer the Associate in Arts degree with the addition of USF transfer credits, but is eligible for the Associate in Arts certificate at USF, then the USF institution will confer the Associate in Arts certificate.

7. 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. 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.

8. University of South Florida credit hours will be broadly defined to include USF sponsored student exchange programs and the University of Florida Correspondence Division. The grades from these institutions, (except those earned through the University of Florida Correspondence Division) are recorded on the permanent record at USF, and included in the grade point average calculation, and will be counted in the student's grade point average as work attempted at USF for the Associate in Arts Certificate.

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

10. 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.

11. All University of South Florida 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.

12. The awarding of the Associate in Arts Certificate 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.

13. 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 ninety (90) credit hours.

Language Requirements

Foreign Language Entrance Requirement (FLENT)

FLENT (Foreign Language Entrance Requirement) Florida Statues 1007.262

The Florida Department of Education shall identify the competencies demonstrated by students upon the successful completion of 2 credits of sequential high school foreign language instruction. For the purpose of determining postsecondary equivalence, the department shall develop rules through which Florida College System institutions correlate such competencies to the competencies required of students in the colleges' respective courses. Based on this correlation, each Florida College System institution shall identify the minimum number of postsecondary credits that students must earn in order to demonstrate a level of competence in a foreign language at least equivalent to that of students who have completed 2 credits of such instruction in high school. The department may also specify alternative means by which students can demonstrate equivalent foreign language competence, including means by which a student whose native language is not English may demonstrate proficiency in the native language. A student who demonstrates proficiency in a native language other than English is exempt from a requirement of completing foreign language courses at the secondary or Florida College System level.
USF System Regulation USF3.007 - Degree Requirements: Baccalaureate/Undergraduate
(http://regulationspolicies.usf.edu/regulations/pdfs/regulation-usf3.007.pdf item 2)

Satisfaction of the foreign-language admissions requirement by having two (2) sequential units of the same foreign language in high school, or eight (8) semester hours of the same foreign language in college, or documented equivalent proficiency.

**Foreign Language Graduation Requirement (FLEX)**

The fulfillment of the Foreign Language Requirement is one of the requirements to receive a Bachelor's degree at USF. Students may fulfill the requirement by completing eight semester hours of the same foreign language or American Sign Language (ASL). Alternative options that will be considered include the following:

1. Successful completion of two sequential high school credits in one foreign language as listed in status 1007.262 and DOE Board Rule 6A.10.02412. The student is responsible to send official high school transcripts to the Registrar’s office for evaluation.

2. Submitting an English translated high school course-by-course transcript from a country of origin, exits test scores or certificates not acceptable. Students must have an English translation performed, at students’ expense, by a member of the National Association of Credential Evaluation Services (NACES http://www.naces.org/members.htm).

Also, appropriate College Level Examination Program (CLEP) level one and two scores in French, German, and Spanish will be accepted.

All students pursuing a B.A. degree must meet the foreign language exit requirement which for most students will require completing two semesters of the same foreign language or for some majors sign language. Students who already have knowledge of a foreign language may "place out" of the requirement. The following statements summarize the methods for completing FLEX:

1. Two semesters of the same foreign language (e.g., SPN 1120 and SPN 1121) or sign language for some majors with no less than a "D" in the first semester and no less than a "C" in the second semester. "S" or "P" grades may not be substituted.

2. Completion of the second semester or higher of a foreign language with no less than a "C". (The first semester was not taken because of placement).

3. Successfully passing the USF language placement test by placing into the third course or higher. https://languages.usf.edu/foreign/

4. Subject CLEP credit for two semesters.

5. AP Credit for two semesters.

**American Sign Language**

The following programs accept Sign Language Competency for the exit requirement: Africana Studies, Aging Sciences, Anthropology, Chemistry, Communication, Communication Sciences and Disorders, Criminology, Economics, English, History, Interdisciplinary Social Sciences, Mass Communications, Political Science, Psychology, Religious Studies, Sociology, Theatre, Women’s and Gender Studies, and all programs in the College of Education.

Approval is 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 Latin should apply to the Director of the Department of World Languages. Students taking the examination in New Testament Greek or Hebrew should apply to the Chairperson of Religious Studies. Students utilizing American Sign Language should apply to the Chairperson of Communication Sciences and Disorders.
Graduation and Commencement

Graduation Requirements (Baccalaureate)

USF System Regulation 3.007 - Degree Requirements: Baccalaureate/Undergraduate
http://regulationspolicies.usf.edu/regulations/pdfs/regulation-usf3.007.pdf

1. General Education requirements (36 hours) must be completed prior to graduation per USF System Regulation 3.007 and BOG 6.017 requirements.

2. Civics Literacy - Baccalaureate degree-seeking students initially entering a state university fall semester 2018 and thereafter must demonstrate competency in civic literacy (see Civics Literacy section of Catalog or https://www.usf.edu/undergrad/students/civics-literacy.aspx).

3. Updates of changes to State and BOG Requirements - Students will be held to the most current standards established by the BOG or state law.

4. In addition to Florida Board of Governors and/or state requirements, the USF System has the following USF specific minimum requirements that are designed to assure the academic integrity of the degree programs at each System Institution:

   a. Successful completion of a minimum of 120 unduplicated semester credit hours through university coursework, acceleration mechanisms, and/or transfer credit, including courses specifically approved as repeatable for credit within the System (e.g. practical, ensembles and field experiences);

   b. A minimum adjusted grade point average (GPA) of 2.00 on all course work taken at the USF System Institution from which the degree is conferred and an overall 2.00 average on all college-level work attempted;

   c. Satisfactory completion of major requirements in a chosen degree program, including additional requirements set by the USF System Institution and college offering the degree;

   d. Successful completion of at least forty-two (42) semester hours in courses numbered 3000 and above;

   e. Successful completion of at least 25% of the total credit hours required for the degree must be completed in courses offered by the USF System Institution conferring the degree;

   f. Registration and successful completion of at least thirty (30) of the last sixty (60) semester hours at the USF System Institution (home institution) from which the degree is to be conferred. In cases of emergency, a maximum of six (6) hours of the final thirty (30) semester hours may be completed by correspondence or residence at another accredited senior institution with the approval of the academic dean. Exceptions to the home institution rules in this paragraph 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;

   g. Beginning fall semester 2012, students must complete successfully at least 50% 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 designees to help ensure timely graduation;

   h. To help ensure that students are on track to graduate and are less likely to have excess credit hours, students are required to apply to change USF institutions (USF, USFSM, USFSP) and follow the appropriate procedures. All FTIC students must have completed at least three consecutive semesters, not including summer (i.e., Fall, Spring, Fall), at their current institution before change of institution requests will be processed. The request to change institutions must be signed off by the student and approved by the incoming USF institution.

   i. Students who have entered a university in the State of Florida University System with fewer than sixty (60) hours of credit are required to earn at least nine (9) hours prior to graduation by attendance in one or more summer terms in courses offered by a USF System Institution or any one of the State University System of Florida institutions. This requirement may be waived in cases of unusual hardship to the individual;
j. Satisfaction of the foreign-language admissions requirement by having two (2) sequential units of the same foreign language in high school, or eight (8) semester hours of the same foreign language in college, or documented equivalent proficiency; and

k. The student’s degree program (major) will appear on the baccalaureate diploma. (If a student satisfies all requirements for two (2) majors, including admission, prerequisite, core, etc., both majors may appear on the diploma).

The Office the Registrar has complete information regarding graduation requirements (see https://www.usf.edu/registrar/resources/graduation.aspx).

Degree Progression

USF System Policy 10-505 - Degree Progression and Completion Deadlines for Undergraduate Students
http://regulationspolicies.usf.edu/policies-and-procedures/pdfs/policy-10-505.pd

USF is committed to facilitating students through their academic progress to degree. This Policy is intended to guide students to on-time degree completion without earned excess credit hours as defined by the state of Florida in §1001.92, F.S., §1001.7065, F.S. and §1009.286, F.S.

STATEMENT OF POLICY

Students who have completed all degree requirements will be required to graduate within four years. If a student does not submit the Online Graduation Application for Degree when academic records indicates all degree requirements for the declared major have been met based on the university degree audit system, the University will initiate the degree certification process without an application.

1. Undergraduates must complete the Online Graduation Application and the Online Graduating Senior Survey by the official University deadline (https://www.usf.edu/registrar/) for the term in which they expect to graduate. Degree application deadlines are available in the Academic Calendar found in the Undergraduate Catalog.

2. If denied for graduation, a student’s application will automatically roll to be evaluated for graduation in the next semester. In cases where the student’s academic records have been adjusted to indicate completion of degree requirements within one year of the denial, the original application will be used to graduate the student in the current semester.

3. If a student misses the posted Graduation deadline application, the student must immediately submit a late application via OASIS in order to be eligible for graduation.

1. Any curricular or co-curricular work added to a student’s declared primary major must be completed prior to or during the same academic term that the student’s major requirements are completed. Students should be approved to pursue additional curricular and/or co-curricular work only if it can be completed within eight semesters for first time in college (FTIC) students, excluding summer and alternative calendar terms, and without exceeding her/his excess credit hour surcharge (ECHS) threshold. Transfer students should complete in eight semesters accounting for prior post-secondary enrollment, excluding summer and alternative calendar terms. Examples of this work include, but are not limited to: minors, double majors, concurrent degrees, the Honors program, study abroad experiences, and/or work-based learning (e.g., co-ops, internships, etc.). Access to the Excess Hour Counter is available on the Office of the Registrar’s website (https://www.usf.edu/registrar/).

2. FTIC or transfer students who have 120 earned credit hours or more will not be allowed to enroll in courses that are not required for completion of the declared primary major based on the university degree audit system. Exceptions are provided for students in baccalaureate degree programs with prior approval from the Board of Governors to require more than 120 credit hours for completion. Students in those programs will not be allowed to enroll in courses outside of their major requirements once the approved credit hour threshold for the major has been reached.

3. Advisors and students must follow the guidelines listed below regarding major changes. The final decision to allow a student to change to a new major rests with the college of the new major. Colleges will review student requests to change major by evaluating the student’s degree progression as documented in the university degree audit system. Students will review the expected number of years required for degree completion, with special attention to the likelihood that the change may result in ECHS, with an advisor in the new major. The colleges are expected to restrict those changes such that students graduate within the number of years specified in (A) through (C) above and without incurring or increasing ECHS potential.
4. A student will be reselected (RSL) from the primary declared major by the academic college if it is determined they are not meeting degree progression standards. Examples of degree progression standards include, but are not limited to, requirements specified in this policy, college or major D/F grade policies, course repeat/withdrawal policies and/or requirements for admission into major. Specific progression requirements for individual academic programs are listed in the undergraduate catalog under each academic major (http://ugs.usf.edu/catalogs.php).

Any student reselected (RSL) from the officially declared major after 60 earned hours must be reviewed by the student’s current academic advisor for ECHS and degree progression before changing majors. FTIC students will be allowed to change to those majors that can be completed within eight semesters (eight semesters for transfer students accounting for previous postsecondary enrollment), excluding summer and alternative calendar terms, and without incurring ECHS.

5. In the event a student would like to request an exception to any aspect of the above policy, a request must be submitted, in writing, to the Dean of Undergraduate Studies with documentation that provides clear evidence to justify the need to extend enrollment. Only requests submitted prior to the student’s undergraduate application for graduation will be considered. Exceptions will not be granted for students wishing to extend enrollment in order to retake courses where earned grades already meet the minimum graduation requirements or to complete additional coursework for admission to graduate programs.

Summer Enrollment Requirement

All students entering USF with fewer than 60 semester hours of credit are required to earn at least nine semester hours of credit prior to graduation by attendance during one or more Summer sessions in courses offered by a USF System Institution or any one of the State University System of Florida 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 (https://www.usf.edu/registrar/documents/forms/summer-hour-waiver-request-form.pdf). After submission of the form to the Office of the Registrar, the student will be notified by mail of the action taken.

Civics Literacy Competency

State University System of Florida - Board of Governors 8.006 Civic Literacy

USF Civics Literacy website: https://www.usf.edu/undergrad.students/civics-literacy.aspx

Baccalaureate degree-seeking students initially entering a Florida College System institution Fall semester 2018 and thereafter must demonstrate competency in Civic Literacy through one of the following options prior to graduation:

(a) Successfully passing either POS 2041 American National Government or AMH 2020 American History II. Each of the courses must include the following competencies:

1. Understanding of the basic principles and practices of American democracy and how they are applied in our republican form of government;
2. An understanding of the United States Constitution and its application;
3. Knowledge of the founding documents and how they have shaped the nature and functions of our institutions of self-government; and
4. An understanding of landmark Supreme Court cases, landmark legislation and landmark executive actions and their impact on law and society.

(b) Achieving the standard score on one of the following assessments:

- U.S. Citizenship and Immigration Services Naturalization Test - Civics (U.S. History and Government) with supplemental questions - Score 60% or higher
- Advanced Placement Government and Politics: United States - Score 3 or higher
• Advanced Placement United States History - Score 4 or higher
• CLEP American Government - Score 50 or higher

TRANSFER STUDENTS: Students who are admitted to an SUS institution as undergraduate degree-seeking transfer students, as defined by BOG Regulation 6.004 (https://www.flbog.edu/documents_regulations/regulations/6.004%20Transfer%20Student%20Admission_FINAL.pdf). Students transferring to a SUS institution in Fall 2018 or later who have never previously enrolled in a public Florida institution (SUS or FCS) must meet the requirement. Students transferring to a SUS institution after Fall 2018 must meet the requirement if their initial enrollment in any Florida public institution (SUS or FCS) was in Fall 2018 or later and they did not complete the Civic Literacy requirement at the prior SUS or FCS institution(s).

NOTES:
• Students who earned an Associate in Arts degree prior to the 2018-2019 academic year at a Florida public institution (SUS or FCS), and are enrolled in a baccalaureate program beginning Fall 2018 or after, are not required to meet the Civic Literacy requirement.
• Dual enrollment students who complete an AA are EXEMPT from meeting the civics literacy requirement.

**Steps for Graduation**

The Office of the Registrar has complete information regarding graduation requirements (see https://www.usf.edu/registrar/resources/graduation.aspx).

**STEP 1: Apply for graduation (receive a diploma) and complete the graduation survey.**

Login into OASIS using MyUSF and then follow these steps:
1. Enter your Net ID and self-assigned password.
2. Click on "My Resources."
3. Click on "OASIS."
4. Click on "Student."
5. Near the bottom of the list, select "Apply for Graduation."
6. Please be sure to check the address in OASIS as that is where your diploma will be sent.

The Office of Decision Support requires all graduation applicants to take a survey in order to collect data for ODS, as well as the Graduate School. That survey affords the online graduation application.

**IMPORTANT NOTES:** This does not automatically add the student to the commencement ceremony. Please read below for further details to complete that process and see other important information about graduation.

The student is responsible for checking with your college for any additional graduation requirements and earlier application deadlines they may require. For example, the College of Engineering requires all engineering students to apply for graduation in the term prior to the anticipated graduation term.

Any student who completes the graduation survey and applies after the published deadline will not be included in the commencement brochure. Applying late may also possibly prevent the application from being processed in time for the degree to be awarded until the next term, even if all degree requirements are met. In order for a degree statement to appear on your transcript, a graduation survey and application must be submitted whether or not participation in the commencement ceremony is desired.

**STEP 2: Clear financial obligations.** Financial obligations must be cleared prior to graduation or your diploma will be held upon request of the Cashier. Ensure that all fees are paid to the University in full. These include parking, library, etc., or a hold will be placed on the student record. This will prevent release of the student's diploma and transcripts until all fees are collected and the hold is released.

**STEP 3: Check grades.** It is the student's responsibility to clear all "I" (incomplete grades) for courses required for graduation, and to provide official hard copy transcripts of all transferred course work needed for graduation at least one term prior to graduation.
STEP 4: Check current semester schedule. You should notify your college of any change or error in their schedule for the current semester, including any adds/drops or withdrawals. Contact the Office of the Registrar if your name does not appear on a class roll for a course in which you believe you are registered.

STEP 5: Check name in student record. The student’s diploma name must be consistent with their USF student record. A change of name must be submitted on an official Change of Name Form (see https://www.usf.edu/registrar/documents/forms/change-of-name.pdf) with substantiating documents. The student must signify on the form if the changed name is to be listed on your diploma instead of the one in your student record. It is critical that upper/lower case letters, accents, and punctuation be clearly indicated on the application.


Academic Residence

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 will 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.

Students successfully must complete 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 Dean or designee to help ensure timely graduation.

Posthumous Degrees or Degrees in Memoriam

USF System Policy 10-047 (http://regulationspolicies.usf.edu/policies-and-procedures/pdfs/policy-10-047.pdf)

USF may award a posthumous baccalaureate 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.

To award a non-thesis degree, the student must have completed all courses required for the degree. Courses required for the degree, in which the student was enrolled at the time of death, must have been completed to the satisfaction of the faculty so that passing grades might be posted. All other requirements 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

Department chairpersons, or appropriate faculty members, on their own initiative or upon request of a student’s family, may recommend a posthumous, or an in memoriam degree, by forwarding the recommendation to the appropriate college Dean. If approved by the Dean, the request, accompanied by the supporting documentation, will be forwarded to the Dean of Undergraduate Studies (https://www.usf.edu/undergrad/) respective to the degree type at USF (or to the Chief Academic Officer at USF St. Petersburg or USF Sarasota/Manatee) for approval. If the Dean or Chief Academic Officer approves the recommendation, the institution’s Office of the Registrar (https://www.usf.edu/registrar/) will be notified. Posthumous degrees and in memoriam degrees may also be presented to the student’s family in an appropriate setting, which may include commencement held in fall and spring.

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 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 (GPA) 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 GPA of 3.50 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 are not applicable in computing the GPA for honors. In addition, students with a record of academic dishonesty appearing on any transcripts may graduate from a degree program after meeting all degree requirements, but will not be eligible for honors at graduation, including the honor of graduating from the Honors College or a departmental honors program.

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

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

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

For purposes of honors recognition at the Commencement ceremony, students must have a 3.50 GPA before the term in which they plan to graduate to have honors recognized publicly at the Commencement ceremony. The GPA is not rounded up when determining honors at graduation (e.g., 3.69 is not the same as 3.70). The forgiveness policy at USF and other institutions and plus/minus grades awarded at other institutions will not be applicable in computing the GPA for honors. In addition, students with a record of academic dishonesty appearing on any transcript(s) will not be eligible for honors at graduation.

Commencement Ceremony

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, https://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 undergraduate students.

Remember - Graduation is separate process from the Commencement ceremony.

To participate in the Commencement ceremony:

1. Apply to graduate at the Office of the Registrar; submit your application to graduate to receive your diploma at https://www.usf.edu/registrar/resources/graduation.aspx.
2. Register for Commencement ceremony at https://usfweb2.usf.edu/commencement/. Information regarding the ceremony will be mailed to students who apply to graduate by the end of the fourth week of the term.
NOTES:

- Students do not receive their diploma at the Commencement ceremony.
- The list of student names published in the Commencement ceremony program is taken from the list of students who applied to graduate by the end of the fourth week of the term. Students who have elected certain levels of privacy on their records will not have their names published in the Commencement ceremony program.
- Commencement is a most dignified ceremony.
- Academic regalia is required and there is a 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 [https://usfweb2.usf.edu/commencement/](https://usfweb2.usf.edu/commencement/) or by calling (813) 974-1816.
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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 in providing 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.

Undergraduate Studies provides strong set of student success focused departments and initiatives designed to make it more likely that students will successfully navigate the complexities of the transition to college and the baccalaureate experience. Visit the Undergraduate Studies website at https://www.usf.edu/undergrad/ for more information.

Student Affairs & Student Success

Student Affairs is here to help students make their college years some of the best in their life! Every day, our employees come to work with student success at the top of their mind. "Inspiring learning, changing lives, one student at a time" is the motto that guides what all 23 of our departments do. Preparing the student for lifelong success is our mission -- and we're good at it! Visit our website at https://www.usf.edu/student-affairs-success/index.aspx to Be Involved, Stay Well and Get Connected.

Dean of Students

The mission of the Dean of Students Office is to support student learning and development through community building, advocacy, and student engagement.

Goals

- Identify and implement interventions designed to reduce barriers to student success focusing on advocacy, intervention, and emergency response.
- Collaborate with institutional partners to address the needs of the student body targeting identity populations (commuters, graduate students, international students, etc.)
• Collaborate with institutional partners to identify and address community behaviors that impede student success.

• Create, sustain, and enhance programming initiatives that contribute to community building at USF.

Values

• Advocacy
• Student Empowerment
• Collaboration
• Community
• Conscientious use of best practices

Programs and Services

• Facilitate the Non-academic grievance process
• Advocate and help students navigate university and personal concerns
• President’s Lunch-n-Learn
• Respect-a-Bull
• Emergency response
• Off Campus Safety Task Force

Academic Resources

Academic Advocacy

Academic Advocacy
4202 E. Fowler Avenue, SVC 2002
Tampa, FL 33620
(813) 974-2645
https://usf.edu/oaa

The Office of Academic Advocacy (OAA) is dedicated to serving undergraduate students in their pursuit of timely progression to graduation. We work individually with students in academic distress to review their options and collaborate with colleges and university departments to improve progression to graduation.

Undergraduate students identified as experiencing barriers to graduation may receive direct outreach from OAA to review their progress and to advise them towards graduation. Major advisors and university department staff can refer a student to OAA when they perceive an academic barrier to graduation for that student.

Student inquiries and requests for appointments can be submitted via the Office of Academic Advocacy Student Intake Form at https://usf.az1.qualtrics.com/jfe/form/SV_9oGKly2cXBgJPFz.

Academic Success Center

Academic Success Center
University of South Florida
4202 E. Fowler Avenue, LIB 122
Tampa, FL 33620
(813) 974-2729
https://www.usf.edu/undergrad/academic-success-center/index.aspx

The Academic Success Center offers a range of different options for subject-specific tutoring, a comprehensive Writing Studio, and other learning support services in the form of workshops, courses for credit, and specialized program support for several student cohorts ranging from first-year access programs to graduate students.
Program Objectives:

- Recruit, hire, train, support, and retain qualified students as tutors
- Assist students to become confident, self-directed, life-long learners
- Offer a variety of learning support options
- Represent an active concern for students' academic well-being
- Create an atmosphere of mutual respect and trust for students 
- Provide students with accurate, relevant, and appropriate information and referrals
- Continually review policies and practices to ensure that students are appropriately served
- Maintain an inviting, helpful, and approachable manner
- Make every effort to turn each situation into learning experiences for tutors, student-employees, and students
- Refer students as necessary to appropriate university resources for the purpose of enhancing their educational experience

Continuing Education

Corporate Training and Professional Education
4202 E. Fowler Avenue, LIB608
Tampa, FL 33620
(813) 974-5550
https://www.usf.edu/continuing-education/index.aspx
CE-Inquiries@usf.edu

The University of South Florida's Office of Corporate Training and Professional Education works to extend the reach of USF's academic programs, and promotes advanced professional development in order to contribute to building a world class workforce in the Tampa Bay Area. We offer professional certificate programs in Elite People Management, Organization Development and Leadership, Project Management, Process Improvement (Lean Six Sigma Certifications), and HR Professionalism. We also offer nationally recognized certification preparation courses for the SHRM CP (the gold standard in Human Resources certification), PMI's Project Management Professional certification and PMI's Professional in Business Analysis certification.

USF's Office of Corporate Training and Professional Education is also proud to announce the launch of the USF Paralegal Certificate Program, the APICS CLTD Exam Preparation Course and the USF 5G Power Skills Certification. Students learn from world-class faculty and industry practitioners in courses that are accessible, affordable, and professionally relevant. The USF Office of Corporate Training and Professional Education also offers test preparation courses for undergraduate and graduate college entrance exams.

Education Abroad

Education Abroad
University of South Florida
4202 E. Fowler Avenue, CGS 101
Tampa, FL 33620
(813) 974-4314
https://educationabroad.global.usf.edu/
EducationAbroad@usf.edu

Education Abroad offers a variety of study abroad opportunities for students and faculty around the world. Programs 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. Education Abroad 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 assistance for both students and faculty program leaders, including pre-departure orientation sessions. The 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. For more information on How To Apply, visit our website at: https://educationabroad.global.usf.edu/.
English Language Program

English Language Program (ELP)
University of South Florida
4202 E. Fowler Avenue, FAO 100
Tampa, FL 33620
(813) 905-4686
https://www.usf.edu/intousf/elp/

The English Language Program's mission is to support the University of South Florida in its mission to increase global literacy and global engagement by providing an academic learning environment where international students can develop their English language proficiency. Our faculty deliver content-based language courses designed to help students acquire knowledge, think critically, communicate ideas, and demonstrate their competence in English through integrated tasks and projects. These courses provide international students with a foundation for success in reaching their academic and professional goals at the University of South Florida.

Programs and Courses

The English Language Program offers a variety of programs for students. Programs include Academic English courses, as well as customized programs for various groups. The mentoring program provides an opportunity for master's and doctoral students to get hands-on teaching experience while working closely with one of our experienced teachers. We also work with organizations both at USF and elsewhere to help train language teachers.

- **Academic English Program** - The Academic English Program provides intensive English and academic skills training to students interested in studying at USF. The project-based, content-focused curriculum helps prepare students for the demands of attending an American university.
- **Special Programs** - The ELP offers a variety of Special Programs, custom-designed for groups including programs for teens, academic researchers, military personnel, English teachers, and executives.
- **EAP Courses** - The ELP provides curriculum and instruction for five English academic courses for students enrolled in the INTO USF Pathway Program. Visit INTO USF Pathway Program (https://www.usf.edu/intousf/programs/pathways.aspx), for information.

Global Citizens Project

Global Citizens Project
University of South Florida
4202 E. Fowler Avenue, SVC 2049
Tampa, FL 33620
(813) 974-5444
https://www.usf.edu/gcp/
USFGCP@usf.edu

The Global Citizens Project is a university-wide initiative aimed at enhancing undergraduate students’ global competencies through the development of new and improved curricular and co-curricular experiences. USF envisions itself as a global research university dedicated to student success.

The Global Citizens Project is made possible through our reaffirmation of accreditation process by the Southern Association of Colleges and Schools Commission on Colleges (SACSCOC). Every 10 years as part of our reaffirmation by SACSCOC, USF must develop a Quality Enhancement Plan, or QEP. A QEP is a plan to enhance student learning in a particular area that is deemed important by the university and aligns with the university's strategic plan. We have selected global citizenship as the area of learning to focus on this reaffirmation cycle and so have named our QEP, The Global Citizens Project.
The Academic English Program at INTO USF will prepare you for university study at both the undergraduate and graduate levels. This unique curriculum is created to work in small groups with other students to complete academic projects.

Program Structure:

- 6 levels of instruction from beginner to advanced
- 18 hours of classes per week
- 3 hours of interest groups per week
- 3-7 hours of outside cultural activities per week
- 15-20 hours of homework to prepare for classes
- 2 hours of Academic English Extended Learning instruction (optional, but may be required for sponsored students)

Office of Undergraduate Research

The Office of Undergraduate Research (OUR) engages students from admissions to graduation in the pursuit of undergraduate research: an inquiry or creative project that makes an original contribution to their discipline. We are committed to OUR students, OUR community, and OUR future through targeted activities to generate meaningful narratives for inspiring exemplary support. We seek to empower the next generation of citizen scholars, equipped with 21st century workforce skills for a global environment, to fulfill USF’s vision for students: lifelong success.

SMART Lab

The SMART Lab is an innovative learning environment dedicated to supporting students in introductory math courses through tutoring assistance and technology. In the 324-computer lab, students enrolled in SMART Lab courses use software to complete assignments at their own pace, receive instant feedback as they learn mathematics by doing, and get on-demand assistance from instructors, tutors or teaching assistants. In the drop-in tutoring areas, students enrolled in introductory Calculus, Statistics, and Physics courses can also receive learning assistance from peer tutors.

Our goal is to help students build a foundation of study skills that will allow them to learn mathematics and progress towards becoming independent learners. To seek help in SMART Lab courses, complete lab work, or ask additional questions visit us during our hours of operation on the second floor of the Library, LIB 232.
Tutoring Center

Tutoring Center
University of South Florida
4202 E. Fowler Avenue, LIB 206
Tampa, FL 33620
(813) 974-2729
https://www.usf.edu/undergrad/academic-success-center/tutoring/
asctampa@usf.edu

The Academic Success Center offers USF students tutoring assistance in a wide variety of subjects. Help is available on a drop-in basis or via appointments in a collaborative peer-to-peer group setting. A list of the courses tutored can be found in Courses Tutored on our website (https://www.usf.edu/undergrad/academic-success-center/tutoring/courses-tutored.aspx). If you don’t see what you’re looking for, come to the ASC in LIB 206 during our hours of operation and let us know what you need.

The USF Library System

USF Library
4202 E. Fowler Ave. LIB 122
Tampa FL 33620
(813) 974-1611
https://www.lib.usf.edu/
librarystudiesdesk@usf.edu

The USF Tampa Library offers access to an extensive selection of print and electronic resources, including books, maps, e-journal, e-books, and countless databases. There is also a collection of audio/visual materials including videos, CDs, DVDs, and even LPs.

The Tampa Library is a comfortable and inviting place for students and faculty to meet, study, conduct research, and complete group assignments. Library facilities provide wireless access, electrical connections for laptops, individual and group study seating and instructional labs. The Learning Commons (LC) on the first floor has over 140 computer workstations, as well as the Library Services Desk, a state-of-the-art Digital Media Commons, the Digital Heritage and Humanities Collections and the IT Helpdesk. The Academic Success Center, on the second floor, includes the SMART Lab, with an additional 354 computer workstations and the Writing Studio. Other Library partners include the Office for Undergraduate Research, Division of Health Professions Advising and a Starbucks’s Café.

Students and faculty also have access to specialized research assistance and information literacy instruction from our librarians. Assistance is available from research and reference librarians either by appointment, on-line via our website, by phone, or in a classroom setting.

In addition to the Tampa Library, there are two affiliated regional libraries and two special libraries. At USF Tampa are the Shimberg Health Sciences Library (https://health.usf.edu/Shimberg-library/), serving the needs of USF Health consisting of the Colleges of Medicine, Nursing, Pharmacy, Physical Therapy, and Public Health; and the Louis de la Parte Florida Mental Health Institute (FMHI) Research Library (https://lib.usf.edu/fmhi/) serving the College of Behavioral and Community Sciences. In addition, there is the University of South Florida St. Petersburg, home to the Nelson Poynter Memorial Library (https://www.usfsp.edu), and the University of South Florida Sarasota-Manatee campus (https://www.usfsm.edu).

USF Testing Services

USF Testing Services
4202 E. Fowler Avenue, NEC 116
Tampa, FL 33620
(813) 974-2742
https://www.usf.edu/testing-services/
testing@admin.usf.edu

USF Testing Services is an auxiliary unit within Innovative Education. It supports the university's strategic efforts to ensure student success and program innovation by administering entrance and placement, certification and licensure, distance learning and pre-employment exams for numerous agencies, businesses and institutions.

Testing Services accommodates USF and non-USF customers, and delivers more than 1,000 exams per month. Students and professionals alike may take advantage of Testing Services' portfolio of exams.
In 2013, Testing Services was awarded Test Center Certification by the National College Testing Association (NCTA), a non-profit organization of testing professionals working in post-secondary institutions, in companies with test-related products and services, and in other professional testing venues.

The Writing Studio

The Writing Studio
University of South Florida
4202 E. Fowler Avenue, LIB 122
Tampa, FL 33620
(813 974-2729
https://www.usf.edu/undergrad/academic-success-center/writing-studio/

The Writing Studio offers free appointments with experienced writing consultants to all active USF students, faculty, and staff. You will have 45 minutes to talk with a writing consultant, who will ask you questions about your writing goals and concerns. Consultants may not be able to read your entire draft, so please indicate which sections you would like to focus on during your appointment (a typical session covers 3-5 pages at most). Please keep in mind that consultations are interactive and collaborative, so come prepared to work actively on your writing.

What Writing Projects Can I Bring to a Consultation?

Writing consultants look at a wide variety of writing. Consultations can be used for brainstorming/soundboarding (so some sessions may not address any writing but address pre-writing instead). Consultations also look at all disciplines of writing, including research papers, lab reports, articles for publications, theses, dissertations, discussion board writing/writing for the web, and much more. Additionally, consultations can address professional/academic documents, such as resumes, CVs, cover letters, personal statements, scholarship essays, grant writing, tenure portfolios, etc. The Studio also offers multimodal consultations, meaning consultants can work with clients on digital portfolios, presentations/speeches, PowerPoints, or other digital "writing." Clients can also receive help on test prep, especially the writing/English sections of the GRE and the GKT (note that for test prep sessions, clients should plan on bringing in their own materials).

Academic Advising Resources

Academic Advising for Undergraduate Students

Undergraduate Academic Advising Offices

- College of Arts and Sciences advisors - https://www.cas.usf.edu/students/advising/ug/
- College of Behavioral & Community Sciences - https://www.usf.edu/cbcs/undergraduate/advising.aspx
  - Office: MHC 1143
  - Phone: 813-974-8441
- Muma College of Business - https://www.usf.edu/business/undergraduate/advising/
  - Office: BSN 2102
  - Phone: 813-974-4290
  - Office: EDU 106
  - Phone: 813-974-2979
- College of Engineering - https://www.usf.edu/engineering/student-services/academic-advising/
  - Office: ENC 1302
  - Phone: 813-974-2684
- College of Nursing - https://health.usf.edu/nursing/advising/undergrad.html
  - Office: MDA 1002
  - Phone: 813-974-2191
STUDENT SERVICES AND RESOURCES

College of Public Health - https://health.usf.edu/publichealth/undergrad/advising.htm
  - Office: CPH 1039
  - Phone: 813-974-4633

• College of The Arts - https://www.usf.edu/arts/advising/
  - Office: FAH 120
  - Phone: 813-974-3660

• Honors College - https://www.usf.edu/honors/prospective-students/advising.aspx
  - Office: ALN 241
  - Phone: 813-974-3087

• Office of Academic Advocacy - https://www.usf.edu/undergrad/academic-advocacy/
  - Office: SVC 2043
  - Phone: 813-974-2645

• Undergraduate Studies (UGS) Degree Programs (BSAS & BGS) - https://www.usf.edu/undergrad/programs/ugs-degree-programs-staff.aspx
  - Office: SVC 2002
  - Phone: 813-974-4051

USF St. Petersburg - http://www.usfsp.edu/academic-advising/
USF Sarasota-Manatee - http://usfsm.edu/advising/

DegreeWorks Academic Advising System

DegreeWorks is a web-based degree audit and tracking system helping students and academic advisors monitor progress toward degree completion. It provides academic information related to degree progress and displaying courses required and completed in the student's degree program. Access DegreeWorks using the student's activated USF NetID.

Note: Graduate, professional, and non-degree seeking students do not use DegreeWorks at this time.

Transitional Advising Center (TRAC)

Making the transition from high school or from another institution to a major research university is both exciting and challenging. Academic Foundations and Academic Transitions seminar courses are designed to support students during this time of adjustment and acclimation.

Contact us by email: academicfoundations@usf.edu
The Office for Academic Advising Initiatives provides coordinating support and leadership for undergraduate academic advising across USF in collaboration with the Council on Academic Advising, college advising leadership, and other administrative units. We serve many different audiences and areas across the university in a number of different ways including:

- Serving undergraduate students in their pursuit of timely progression to graduation.
- Administration of the Career Path for Academic Advisors along with a Professional Development Program to support academic advisor growth on the Career Path.
- Building collaborative relationships and shared processes with local state and community colleges to enhance the transfer process for students.
- Designing processes and supporting systems to provide undergraduate students and academic advisors with resources for effective planning of students' academic pathways.

For more information:

**Location:** Student Services Building (SVC), Room 202  
**Email:** fhoward@usf.edu  
**Phone:** (813) 974-4051

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**Academic Program Services & Resources**

**College Reach-Out Program (CROP)**

**College Reach-Out Program (CROP)**  
University of South Florida  
4202 E. Fowler Avenue, SVC 2002  
Tampa, FL 33612  
(813) 974-4051  
[https://www.usf.edu/undergrad/crop/index.aspx](https://www.usf.edu/undergrad/crop/index.aspx)  
anixon@usf.edu

Success Is a Journey, Not a Destination!

College Reach-Out Program (CROP) is a statewide pre-college program established in 1983 designed to increase the number of students who successfully enter and 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 7 through 12, 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.”

**Experiential Learning Programs**

**Experiential Learning Programs**  
University of South Florida  
4202 E. Fowler Avenue, ALN 185  
Tampa, FL 33620  
(813) 974-4829  
[https://www.usf.edu/engagement/students/experiential_learning_programs.aspx](https://www.usf.edu/engagement/students/experiential_learning_programs.aspx)

Experiential learning is an essential part of higher education at all levels. Internships, practicums, field experiences, professional field placements, clinical residencies, service-learning and cooperative learning all provide opportunities to bridge theory and practice while preparing students for successful transition into the world of work.

USF offers a wide variety of experiential learning programs in many disciplines. Browse experiential learning programs by college and department by visiting our website.
First Year Academic Programs

To support incoming students in their pursuit of academic and personal success, First Year Academic Programs offers three courses: University Experience, Academic Foundations Seminar, and Academic Transitions Seminar. The elective credit earned from these courses can be applied to any undergraduate degree program.

SLS 1101 University Experience and SLS 2901 Academic Foundations are designed specifically for first-year students to acclimate to USF. These courses provide the necessary support and assistance needed during a student’s transition to university life. The curriculum addresses the opportunities and challenges related to new responsibilities, expectations and academic experiences at a university. The goals of SLS 1101 and SLS 2901 are to help students develop effective academic skills, build community, learn about campus resources, and explore personal goals. Course topics include: study strategies, time management, career development, critical thinking, effective writing, financial literacy, personal wellness, university resources, and involvement in the campus community.

To support USF transfer students, SLS 3113 Academic Transitions helps to facilitate transfer students' academic integration into a research university. In this course, transfer students will understand the academic standards and expectations at a research university; learn strategies for overcoming transfer shock and other challenges in adjusting to a new institution; recognize practices that promote financial literacy, and prepare for their post-graduation plans.

Through these different student success courses, USF offers new students the tools to succeed at a high impact research institution. Data continues to show that students at USF who take these courses earn higher grades and graduate faster than students who do not participate.

FUSE

The FUSE program of the University of South Florida System is designed to promote timely degree completion for students transferring from the local Florida College System Institutions to USF System institutions to earn their Bachelor's degree. Students admitted to the FUSE program will be placed on an academic graduation path that provides a seamless transition from Florida College System (FCS) partner schools to the USF System institution of their choice. This allows for timely completion of both the A.A. and Bachelor's degrees. Students admitted to the program will be guaranteed admission to a USF System institution provided that they earn their Associates of Arts degree in 3 years, with a minimum grade point average of 2.0. Students seeking admission into limited or restrictive access majors will have to meet additional specific requirements such as GPA or test scores.
New Student Connections
University of South Florida
4202 E. Fowler Avenue, MSC 3200
Tampa, FL 33620
(813) 974-2896
Newstudent@usf.edu

The mission of New Student Connections (NSC) is to create and support shared USF experiences that connect students to the campus community and provide for a successful transition. The department accomplishes its purpose by introducing students to engagement opportunities, exposing students to the diversity at USF, and providing access to small communities where students develop meaningful relationships with their peers, student leaders, and staff mentors who support their growth and development. NSC programs and services build on the knowledge that a student has received, provide a progression of learning experiences that complement one another, and offer timely information so they are better prepared to excel academically and become active members of our campus community. For more information, visit https://www.usf.edu/student-affairs/new-student/.

Student Support Services (SSS)
Student Support Services (SSS)
University of South Florida
4202 E. Fowler Avenue, SVC 2002
Tampa, FL 33612
(813) 974-4301
https://www.usf.edu/undergrad/sss/index.aspx
UGS-AskSSS@usf.edu

The Student Support Services Program (SSS) is a federally funded retention program designed for students who have been identified as having an academic need and either first generation college student, as having low-income family status, or both. Based on evidenced based research SSS is designed to significantly increase the retention and graduation rates of the participants it is funded to serve. We are committed to providing proactive, intrusive, comprehensive and innovative services to enhance our student's success at USF. SSS provides a plethora of services including individualized academic advising, counseling, coaching, laptop loan program, SSS Summer Program, Living Learning Community, financial aid assistance SSS scholarships, social and cultural enrichment programs, employment and workshops that broaden career perspectives, improve academic skills, promote self-confidence and address various non-cognitive factors.

Student Benefits

- The summer program is free to all students who complete a FAFSA and meet low-income requirements (tuition, housing, books, meals)
- SSS students who qualify may receive the SSS scholarship
- Receive personalized academic advising and counseling
- Receive priority summer housing and participate in the SSS Living Learning Community
- Receive a head start on the fall curriculum by earning nine (9) credit hours
- Enhance study-skills and problem solving
- Explore career goals or major choice
- Discover the campus and the surrounding Tampa Bay area
- Make friends at the university
Contractual Agreement

Program participants are expected to abide by the SSS contractual agreement made upon their entrance to the institution. Following the guidelines has successfully benefited our students in that an average of 85-95% have remained in good academic standing each year.

As a student in our program, you are responsible to maintain contact with your SSS counselor, participate in student success workshops, become a member of the S Club, take advantage of our laptop loan program, utilize the SSS computer lab, and participate in program events and activities.

Upward Bound Program

Upward Bound
University of South Florida
4202 E. Fowler Avenue, SVC 2002
Tampa, FL 33612
(813) 974-4051
https://www.usf.edu/undergrad/ub/

The University of South Florida Upward Bound Program (UBP) is a TRIO (https://www2.ed.gov/programs/trioupbound/index.html) college-access program funded by the United States Department of Education.

- The goal of UBP is to increase the rate at which participants complete secondary education and enroll in and graduate from institutions of post-secondary education.
- USF UBP serves Hillsborough County high school students (https://www.usf.edu/undergrad/ub/program-eligibility.aspx) living in low-income households or households in which neither parent holds a bachelor's degree (first-generation college students).
- Services (https://www.usf.edu/undergrad/ub/services.aspx) also include instruction, tutoring, counseling, mentoring, cultural enrichment, campus tours, and a college residential experience.
Student Services and Resources

Arts & Culture

Arts & Culture https://www.usf.edu/campus-life/arts-culture.aspx

The Arts at USF thrive with more than 300 yearly concerts, performances, exhibitions, lectures, symposia and festivals open to students and the community, many free of charge.

- College of The Arts Events - https://www.usf.edu/arts/
- Botanical Gardens - http://gardens.usf.edu/

Athletics

University of South Florida Athletics Department
4202 E. Fowler Ave., ATH 100
Tampa, FL 33620
(813) 974-2125
https://gousfbulls.com/

The University of South Florida System Athletic Department is committed to providing all student-athletes with opportunities to receive a world-class education, win championships, and develop into the leaders of tomorrow while embracing our partnerships within the Tampa Bay community.

Campus Recreation Services

Campus Recreation Department
4202 E. Fowler Avenue, REC 111
Tampa, FL 33620
(813) 974-7084
https://www.usf.edu/student-affairs/campus-rec/

Email form: http://www.sa.usf.edu/forms/campus-rec/form.asp?type=question

The University of South Florida Campus Recreation Department is home to the Campus Recreation Center. This is a state-of-the-art fitness facility, located on the USF main campus in Tampa, FL. Spanning over 180,000 square feet, the recreation center offers a wealth of space and activities including:

- Two Gymnasiums, with the ability to host Badminton, Basketball, and Volleyball Contests
- An indoor suspended track
- Five four-walled racquetball courts and one squash court
- An indoor heated pool
- Racquetball & Handball Courts
- Squash Court
- Multipurpose Rooms
- Andros Tennis Courts

In addition to the indoor facilities, the Campus Recreation department also has the following facilities:

- The brand new satellite fitness facility located in the Village housing area (The Fit)
- The satellite fitness facility located in the USF Health area (The WELL)
In addition, the USF Campus Recreation Department offers a variety of intramural sports, sport clubs, aquatic programming, adventure travel, an outdoor resource center, and a fitness program complete with daily group fitness classes. The Campus Recreation Center also has an equipment check out service, daily use lockers, and expansive cardio and fitness floors with state of the art cardio and strength equipment.

USF Campus Recreation also maintains outdoor facilities for use by USF students, faculty, staff, and other affiliate members. These facilities include 13 football and soccer fields, 2 softball fields, 16 tennis courts, a 1.2 mile shaded running trail, and Riverfront Park (located on Fletcher Ave. Includes boat rental, picnic facilities, challenge course, and sand volleyball).

Career Services

Career Services
4202 E. Fowler Ave. SVC 2088
Tampa, FL 33620-6930
(813) 974-2171
https://www.usf.edu/career-services/
CareerServices@usf.edu

For students: Find information about selecting a major (or picking a new one!), information about career options, how to secure an internship or co-op, and resources for your job search. You can also check out important information about upcoming events and our Career Preparedness Certification program.

For parents, family, and friends of current USF students: Visit our website to review the content that we’ve put together specifically for you! This information can help you guide your student as they navigate their career development path.

We’re a member of the Florida Career Centers (FCC) organization, a consortium representing many of the career services leaders at State University System institutions. The FCC meets 3 times per year, throughout the state, collaborating with area employers and serving as the host of the Statewide Job Fair, held annually in May. We’re also proud to be a member of the National Association of Colleges and Employers, a national organization committed to providing standards, ethical guidelines, advocacy, and guidance on key issues for our profession.

Suit-A-Bull

Suit-A-Bull
4202 E. Fowler Ave. SVC-2060
Tampa, FL 33620-6930.
(813) 974-1407
https://www.usf.edu/career-services/students/suit-a-bull.aspx

Suit-A-Bull, organized by Enactus at USF in partnership with the office of Career Services, is a free suit rental service for USF students. Suit-A-Bull has over 600 items including suits, jackets, pants and shirts for both men and women.

Center for Leadership & Civic Engagement

Center for Leadership & Civic Engagement
Marshall Student Center, Student Life Tower, 1st & 3rd Floors
4202 E. Fowler Ave, MSC 4100
Tampa, FL 33620
Main Office: (813) 974-7595
https://www.usf.edu/CLCE

The Center for Leadership and Civic Engagement (CLCE) trains, educates, and develops USF community members to be effective, ethical, and positively engaged leaders among the global community. Our programs help each student discover their passion and talents, while developing their skills and understanding of leadership and active citizenship.
Center for Victim Advocacy & Violence Prevention

Center for Victim Advocacy
4202 E Fowler Avenue, SVC 2058
Tampa, Florida 33620
Office: (813) 974-5756
 Victim Helpline: (813) 974-5757
 Email: va@admin.usf.edu
 https://www.usf.edu/student-affairs/victim-advocacy/

The Center for Victim Advocacy provides free and confidential services to USF students, faculty, and staff. We serve men, women, and people of all sexual orientations, gender identities, and gender expression who have experienced crime, violence or abuse on or off campus either recently or in the past.

Child Care

USF offers on-campus childcare options for students, faculty and staff, including Bright Horizons at USF (monthly tuition rates ranging from $682 to $1,200), and the USF Preschool for Creative Learning, a partner with the USF College of Education.

USF Family Center
3125 USF Banyan Circle
Tampa, FL 33612
https://child-care-preschool.brighthonzons.com/fl/tampa/usf

Enrollment Information: 877-624-4532
Phone: 813-974-8500
Hours of Operation: M-F: 7:00 a.m. to 6:00 p.m.
Ages Served: Infants, Toddlers, Preschool, Kindergarten Prep, Summer Camp

USF Preschool for Creative Learning
11811 Bull Run Drive
Tampa, FL 33617
http://www.usfpcl.org/
PCLinfo@coedu.usf.edu
(813) 974-5142

Copy Services

USF Print Shop
Marshall Center
(813) 974-9923

University of South Florida and RICOH have partnered to offer students and faculty a full range of business services to assist with their everyday needs. The USF Print Shop can produce crisp, clean copies, prints, professional binding and finishing. They can also help with quality prints of posters, signs, banners, postcards, business cards, program booklets, brochures, and traditional-sized photos.

Counseling Center

4202 E. Fowler Ave. SVC-2124
Tampa, FL 33620-6930.
813-974-2831
https://www.usf.edu/student-affairs/counseling-center/

Monday 8:00am - 6:00pm
Tuesday - Thursday 8:00am - 7:00 pm
Friday 8:00am - 5:00pm
Closed University holidays

Extended hours are available at satellite clinic locations on-campus. Twenty-four hour telephone consultation is also available. For additional information, call 813-974-2831.
The Counseling Center offers comprehensive psychological services to help students navigate the challenges of college life and take advantage of opportunities for personal growth. Learn about the psychological services, workshops, counseling and treatment programs available.

Dining Services

USF Dining Services
4202 E. Fowler Avenue, AXA 0094
Tampa, FL 33620
813-974-5021
https://usf.campusdish.com/

The campus dining experience is an integral part of the University of South Florida with over 25 dining locations on campus to serve you. Visit Dining Services website to view dining locations and all of the wonderful options offered.

Meal Plan

Meal plans are convenient, flexible, and loaded with options. Each meal plan comes with meal swipes to use at our three dining halls and dining dollars to use at one of our various retail locations. The ability to dine at all of the dining locations all across campus gives students a range of menus and offerings. Students will get guaranteed value, whether they eat on campus three times a week or three times a day! We’ve got students covered.

See our Meal Plan options at our website at https://usf.campusdish.com/MealPlans.

Students with Disabilities Services

4202 E. Fowler Avenue, SVC 1133
Tampa, FL 33620
(813) 974-4309
sa-sds-information@usf.edu
https://www.usf.edu/student-affairs/student-disabilities-services/

Students with Disabilities Services promotes equitable and accessible education, meaningful self-advocacy, awareness of disability issues and inclusiveness for the USF community. Learn about accommodations, programs and assistive technologies designed to support USF students.

Equity and Diversity

Diversity, Inclusion and Equal Opportunity

4202 E. Fowler Avenue, ALN 172
Tampa, FL 33620
(813) 974-4373
https://www.usf.edu/diversity/

We foster an institutional climate that is welcoming, inclusive, and safe for students, faculty, staff and visitors. As a system-wide office we promote initiatives that contribute to the diversity of our institution and celebrate the rich heritage in our campus community and the region. We provide oversight for equal employment opportunity, as well as processes to mitigate harassment and discrimination. Additionally, we coordinate Title IX services in conjunction with other units to prevent sexual violence and create a culture of safety.

Faith-Based Organizations

The Religious and Spiritual Life at USF is a network of member faith communities committed to an agreed upon set of ethical standards. We provide access to programs, services, and activities that encourage a campus atmosphere of healthy religious and spiritual expression. This is accomplished through meetings, resources allocation, and collaboration between member organizations and the Division of Student Affairs.

For more information, visit http://www.rsl.usf.edu/page.asp?id=79
Feed-A-Bull Food Pantry
4202 E. Fowler Avenue, SVC 005
Tampa, FL 33620
(813) 974-5884
feedabull@usf.edu

Feed-A-Bull is a campus food pantry initiative spearheaded by Student Health Services, the Office of Student Outreach and Support (SOS) and Feeding America Tampa Bay. Feed-A-Bull is available for enrolled USF students on the USF Tampa campus. It was created to address food insecurity by providing supplemental food to students in need, as well as education and resources to students related to purchasing and preparing balanced food on a budget.

Expanded space! SVC 005 *(next to Oracle, basement of the Student Services Building)*
Monday: 5:00pm - 7:00pm
Tuesday: 9:00am – 12:00pm
Wednesday: 1:00pm – 4:00pm
Thursday: 5:00pm – 7:00pm

Please note: check our website for operational hours or closure on University breaks
Fraternity/Sorority Life

Fraternity/Sorority Life
4202 E. Fowler Avenue, MSC 2306
Tampa, FL 33620
(813) 974-1001
getinvolved@usf.edu

Hours: Monday - Friday, 8:00 am - 5:00 pm

Being a member of a Greek lettered organization at the University of South Florida is a great opportunity to develop as a person and to enhance the collegiate experience. Through membership development programs that the office hosts to philanthropies created by each organization, members of the Greek community are exposed to multiple learning and growth opportunities. Being a member of a fraternity/sorority means joining an organization that is bigger than yourself where you learn about personal values and ethics and finding that organization that has the values and morals that align with your own. This aspect is something that is unique to a Greek Lettered organization and that no other student organization can offer to the average student.

Health Services

USF Student Health Services
General Info / Appointment Line: 813-974-2331
After Hours Telephone Consultation: 813-974-2331
TDD: 813-974-1758 Fax: 813-974-7181
Immunization Office: 813-974-4056 or immunization@shs.usf.edu
Insurance Compliance Office: 813-974-5407 or insurance@shs.usf.edu
USF Bulls Country Pharmacy: 813-974-2071 usf.edu/BCpharmacy
Feed-A-Bull Food Pantry: 813-974-5884 or feedabull@usf.edu

Clinical Hours, Medical Clinic located at SHS 100
- Fall & Spring Semesters: 8:00am - 5:30pm
- Summer Semester: Monday - Friday 8:00am - 4:30pm
- Break Weeks: 8:00am - 4:30pm

Immunizations, Insurance, and Laboratory Hours
- Immunizations and Insurance Compliance are open from 8:00am - 5:00pm in Student Health Services Annex
- Laboratory is open from 8:00am - 5:00pm within the Medical Clinic at SHS 100

Pharmacy, located in MSC 1504
- Fall & Spring Semesters: 9:00am - 5:30pm
- Summer Semester & Break Weeks: 9:00am - 5:00pm

Feed-A-Bull Food Pantry in SVC 005
- Please check website for operational hours
The services provided by Student Health Services (SHS), in collaboration with the other Wellness USF departments, can help you achieve and maintain a healthy lifestyle, and thereby support your academic success. Whether you are sick, injured, managing a chronic health problem, or working to develop a healthier lifestyle, Student Health Services is here to help! Our mission is to provide students with high-quality health care and education to strengthen student learning and promote lifelong success through health and wellness. We combine a wide range of medical, counseling, prevention, and wellness services to help students remain healthy and succeed academically. All services are subsidized by your tuition, allowing us to offer general medical consultations at no out-of-pocket cost and quality specialty services at student rates. We can even bill private insurance or put fees on your OASIS account, so you don’t delay medical treatment or necessary medication.

SHS operates with an open access appointment system in order to accommodate same day appointments. We will schedule you for the first available appointment based on the type and urgency of your medical symptoms. We have an on-site laboratory, participate with e-prescribing, and offer a secure health portal where you can communicate with your medical team. SHS respects patient confidentiality. We utilize electronic health records and medical records are managed in a strictly confidential manner.

Feed-A-Bull is a Tampa campus food pantry initiative spearheaded by Student Health Services, the Office of Student Outreach & Support (SOS) and Feeding America Tampa Bay. Feed-A-Bull is available to students enrolled on the USF Tampa campus. It was created to address food insecurity by providing supplemental food to students in need, as well as education and resources to students related to purchasing and preparing balanced food on a budget.

**Housing & Residence Education**

University of South Florida  
4202 East Fowler Avenue RAR229  
Tampa, Florida 33620-7700  
813-974-0001  
https://www.usf.edu/housing/  
housing@usf.edu  
The transition to college is a big one. We want you to know that the residential experience at USF is characterized by support, strong interpersonal connections, and academic engagement. We are here for you, and our residents are here for each other.

**Information Technology**

4202 E. Fowler Avenue, SVC 4010  
Tampa, FL 33620  
(813) 974-1222  
https://www.usf.edu/it/index.aspx  
help@usf.edu  
Students can find many of the resources they need to attend class at our website https://www.usf.edu/it/index.aspx. Learn about MyUSF, how to print on campus, information on connecting to the wireless network, and more.

**Wireless Services**

Wi-Fi is available in nearly all academic buildings and many outdoor areas utilizing the USF-Gold, USF, USF-Guest, or eduroam networks. Students can use Wi-Fi compatible devices anywhere service is provided; most locations also support the higher speed 802.11a/n/ac standards. Wi-Fi service is provided free of charge to current USF students, faculty and staff. USF has a computer network that covers practically the entirety of the campus, with almost all buildings having fiber optic cable into wiring centers to allow for high-speed connections to the redundant, double-starred 10 Gigabit per second campus backbone. For more information, visit https://www.usf.edu/it/class-prep/wireless.aspx.
Marshall Center

Marshall Student Center
4202 E. Fowler Avenue, MSC 4100
Tampa, FL 33620
(813) 974-3180
https://www.usf.edu/student-affairs/msc/

The Phyllis P. Marshall Student Center is the heart of campus. At over 230,000 square feet the MSC welcomes over 10,000 students, staff, and visitors every day. The Marshall Student Center is a vibrant gathering place that strengthens a person's connectivity to USF, cultivates a sense of community, and hosts campus traditions by providing exceptional facilities, event services, and student employment opportunities.

Multicultural Affairs

Office of Multicultural Affairs
4202 E. Fowler Avenue, MSC 3300
Tampa, FL 33620
(813) 974-5111
https://www.usf.edu/student-affairs/multicultural-affairs/
sa-OMA@usf.edu

Monday-Friday from 9:00am-5:00pm

The Office of Multicultural Affairs coordinates educational, cultural, and social programs to foster experiences, which create interculturally mature global citizens who are prepared to thrive in diverse environments. While promoting intercultural dialogue, awareness, advocacy and respect for diversity, OMA helps students understand and appreciate a multitude of identities. Through programming, trainings, and direct connections with our staff and services, OMA creates an inclusive environment enabling students to become conscientious global citizens.

Parking and Transportation Services

Parking and Transportation Services
4202 E Fowler Avenue, PSB101
Tampa, Florida 33620-7700
(813) 974-3990
https://www.usf.edu/administrative-services/parking/
psweb@usf.edu

Our division is responsible for the overall management of the Bull Runner Transit System and parking facilities and services. We are committed to providing guidance and assistance to the USF community and our guests with all their parking and transportation needs in a professional and courteous manner.
Bus Service (Bull Runner)
### Electric Vehicle Charging Stations

USF Tampa Campus currently has 5 electric vehicle (EV) charging stations as part of the ChargePoint Network. ChargePoint is the world's largest and most open electric vehicle charging network with over 25,300 locations. For more information, see [https://www.usf.edu/administrative-services/parking/parking/ev-charging-stations.aspx](https://www.usf.edu/administrative-services/parking/parking/ev-charging-stations.aspx).

ChargePoint allows EV drivers to find and check charging station availability in real time at [https://na.chargepoint.com/charge_point](https://na.chargepoint.com/charge_point).

### Postal Services

**USF Post Office**

University of South Florida  
4202 E FOWLER AVE STOP PPA109  
Tampa, FL 33620-9951  
(813) 974-2606  
[https://www.usf.edu/administrative-services/facilities/services/post-office/](https://www.usf.edu/administrative-services/facilities/services/post-office/)  
E-Mail: bulkmail@admin.usf.edu

The USF Post Office is responsible for providing mail service to students and employees as well as operating a full service post office that is open to the public. The US Post Office Contract Unit is open to the public for retail sales.  
• The USF Post Office rents university owned mailboxes for personal use. These mailboxes are accessible 24 hours a day, seven days a week. However, mail that is too large to fit in the mailbox and mail that requires a signature, needs to be retrieved during Post Office business hours.

Business Hours: 9 a.m. to 4 p.m., Monday-Friday

### Safety and Security

**Police Department**

4202 E. Fowler Ave, UPB002  
Tampa, FL 33620  
Main Office: (813) 974-2628  
Fax: (813) 974-5616  
IN AN EMERGENCY DIAL 911  
[https://www.usf.edu/administrative-services/university-police/index.aspx](https://www.usf.edu/administrative-services/university-police/index.aspx)

The University Police Department is a full-service law enforcement agency serving and protecting the university community. Officers patrol the campus and surrounding areas 24/7. Learn more about the USFPD, get activity reports and more,

- Active Shooter Information
- Bicycle Registration - Bicycle Anti-Theft (BAT) Program
- Campus Safety Guide
- Campus Security Authorities
- Crime Alert Information
- Educational Programs
- MoBull Messenger & Guardian
- Operation ID
- SAFE Team
- Self-defense For Women - Rape Aggression Defense (R.A.D.) Class
- Sexual Predators/Offenders Alerts
- Street Smart
Students of Concern Assistance Team (SOCAT)

The Students of Concern Assistance Team (SOCAT) is an interdisciplinary team, which reviews referrals for students whose behavior presents a disruption to campus or a concern for safety. SOCAT meets weekly, or as needed, to assess referrals, develop action plans, and monitor red flag behaviors across the campus community.

SOCAT is an interdisciplinary committee made up of representatives from across the USF community including the Dean of Students Office, Housing and Residential Education, University Police, Counseling Center, Student Rights and Responsibilities, Student Health Services, Undergraduate Studies and Graduate Studies. Additionally, we may consult with Students with Disability Services, Veteran Success, Center for Victim Advocacy, or other campus resources as needed.

Student Government
4202 E. Fowler Avenue, MSC4300
Tampa, FL 33620
813-974-2401
https://www.usf.edu/student-affairs/student-government/
studentgovernment@usf.edu

The mission of the Student Government at the University of South Florida is to ensure an optimal student experience by advocating on behalf of the Student Body, shaping university policy, and foster school pride.

USF Student Government Association (SG) is run by more than 120 students, which includes student employees and volunteers. We are here for you--the students of USF--to serve your needs and be your voice. We welcome you to get involved with us either directly as a student employee or volunteer, indirectly by attending the events we sponsor or fund through campus departments, and/or by using the various services and resources provided. For more detailed information, please visit our website.

Student Organizations
Center for Student Involvement
4202 E. Fowler Avenue, MSC 4100
Tampa, FL 33620
(813) 974-1001

At USF, there are so many ways that you can get involved with campus and the community while having fun and exploring your passions! Our office exists to not only coordinate many of these activities, but to help you find just the right ones for you. Stop by our office and we will point you in the right direction and/or explore the opportunities. Attend, volunteer, or plan -- just get involved to make some of the best memories and friends of your college years!

Student Ombuds
4202 E. Fowler Avenue, ALN 191
Tampa, FL 33620
(813) 974-0835
https://www.usf.edu/student-ombuds
ombuds@usf.edu

The Student Ombuds Office provides confidential, impartial, informal and independent services to students with complaints or concerns about the University. The mission of the Student Ombuds Office is to facilitate fair and equitable resolution processes that promote student success.
Tobacco and Smoke Free University

Environmental Health & Safety
4202 E. Fowler Avenue, OPM 100
Tampa, FL 33620
(813) 974-4036
https://www.usf.edu/administrative-services/environmental-health-safety/tobacco-free/

USF is committed to providing a safe, healthy and enjoyable learning, living and working environment. On January 4, 2016, the USF Tampa Campus became entirely tobacco and smoke free. Smoking and use of tobacco products are not allowed in any indoor or outdoor area, including parking garages, grounds, sidewalks or recreational areas. This policy also includes the use of e-cigarettes.

By becoming a tobacco and smoke free campus, USF hopes to promote overall health and wellness for the university community and create a more attractive and enjoyable campus experience by completely eliminating smoking and tobacco product use.

USF Federal Credit Union

13302 USF Palm Drive
Tampa, FL 33612
Main Branch: (813) 569-2000
US Toll Free: (800) 763-2005
Email form: https://www.usffcu.com/email-us
https://www.usffcu.com/

When you join USF FCU, you become part of an important movement; individuals coming together as part of a cooperative effort designed to meet their unique financial goals. We'll provide the expertise and resources you need to feel confident in your financial decisions, and the convenience and technology you crave to help make life a little easier. With more than 30,000 fee-free ATMs nationwide, low-rate and big-reward credit cards, competitive rates on your savings, convenient and smart checking.

USF Card

Tampa Campus, SVC1032
Hours: Monday - Thursday: 9:00am - 6:00pm, Friday: 9:00am - 5:00pm
(813) 974-2357
idcard@usf.edu
https://www.usf.edu/it/class-prep/usf-card.aspx

The USFCard is the official identification card of the University of South Florida. The USFCard is a multi-functional card with digitized photo and electronic identification and validation for departments needing to verify student and/or employee status. The USFCard was designed as a platform for a multitude of services and functions. You must visit the Card Center located in the Student Services building (1st floor) to fill out proper documentation to obtain your USFCard.

Cardholder Responsibilities
A. Use of the USFCard by anyone other than the person to whom it was issued is strictly prohibited.
B. The cardholder is subject to disciplinary actions or other penalties for improper use of the card.
C. The cardholder is responsible for any and all losses associated with the card.
D. Punching holes, marking on the card, adding stickers or altering the card in any way is strictly prohibited.
Veteran Success
Office of Veteran Success
4202 E. Fowler Avenue, ALN 130
Tampa, FL 33620
(813) 974-2291
https://www.usf.edu/student-affairs/veterans/
vetserve@usf.edu

The Office of Veteran Success provides specialized programs and services to over 2,000 veterans, eligible dependents, active duty service members, and members of the Selected Reserve here on the USF campus. We are a one-stop shop for anything that you, a student veteran, may need. Although we also assist dependents, our main goal is to help veterans in whatever capacity necessary so that you can succeed with your educational and career goals. This may include helping with admission to the school, navigating VA benefits, graduating, or finding employment opportunities.

Wellness


Wellness consists of different dimensions, such as emotional, environmental, intellectual, social and physical. When you take care of each one, you can be your best and excel in all areas of your life.

Most students cite stress and anxiety as major challenges to achieving their goals. We have many resources to help you be well and excel on campus. Please take advantage of our services and resources so you can start developing lifelong healthy habits that can have a positive impact on your college success.

Wellness Centers

Enjoy our Relaxation Stations in the Wellness Centers at the MSC and the FIT where you can relax, rest and recharge in our high-tech nap pods, our electronic massage chairs, and our oversized beanbags. You can also:

- Schedule coaching and counseling sessions
- Chill in the reception area
- Get a piece of free fruit every day
- Pick up sexual health and dental resources
- Grab a sleep pack that include an eye mask, earplugs, sleepy time tea and sleep tips.

Wellness Center Relaxation Stations

Locations:
- Marshall Student Center, 1504
- The FIT (next to The Hub dining hall)
  813-974-3684

Check our website for hours: https://www.usf.edu/wellnesscenter

Want to reach your goals?

Consider signing up for your free personal and private success and wellness coach who will work with you to create your plan for success.

Success and Wellness Coaching is a personalized process that empowers you to achieve self-determined goals relating to your personal, emotional, social, and academic success and wellbeing.

Any USF student can sign up for coaching. Most students sign up for 3-6 sessions. You can meet with your coach most anytime during the day and most any location that is convenient for both of you.

You can learn more about coaching by calling 813-974-0463 or visit us at https://www.usf.edu/student-affairs/wellness/about-us/successandwellnesscoaching.aspx
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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 by participating nonpublic institutions. The major purpose of this system is to facilitate the transfer of courses between participating institutions. Students and administrators can use SCNS (https://flscns.fldoe.org/) to obtain course descriptions and specific information about course transfer between participating Florida 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. 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 SCNS. The listing of prefixes and associated courses is referred to as the “SCNS taxonomy.” Descriptions of the content of courses are referred to as “statewide course profiles.”

Example of Course Identifier

<table>
<thead>
<tr>
<th>Prefix</th>
<th>Level Code (first digit)</th>
<th>Century Code (second digit)</th>
<th>Decade Code (third digit)</th>
<th>Unit Code (fourth digit)</th>
<th>Lab Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENC</td>
<td>1</td>
<td>1</td>
<td>0</td>
<td>1</td>
<td>No laboratory component in this course</td>
</tr>
<tr>
<td>English Composition</td>
<td>Lower Level (Freshman)</td>
<td>Freshman Composition</td>
<td>Freshman Composition Skills</td>
<td>Freshman Composition Skills I</td>
<td></td>
</tr>
</tbody>
</table>

General Rules 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, as listed below in Exceptions to the General Rule for Equivalency.

For example, a freshman composition skills course is offered by many different public and nonpublic postsecondary institutions. Each institution uses “ENC_101” to identify its freshman composition skills 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, “ENC” means “English Composition,” the century digit “1” represents “Freshman Composition,” the decade digit “0” represents “Freshman Composition Skills,” and the unit digit “1” represents “Freshman Composition Skills I.”

In the sciences and certain 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 that has the same prefix and course number but meets at a different time or place.

Transfer of any successfully completed course from one participating institution to another is guaranteed in cases where the course to be transferred is equivalent to one offered by the receiving institution. Equivalencies are established by the same prefix and last three digits and comparable faculty credentials at both institutions. For example, ENC 1101 is offered at a community college. The same course may be offered at a state university as ENC 2101. A student who has successfully completed ENC 1101 at a Florida College System institution is guaranteed to receive transfer credit for ENC 2101 at the state university if the student transfers. The student cannot be required to take ENC 2101 again since ENC 1101 is equivalent to ENC 2101 if the minimum grade has been earned in the course. 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.

NOTE: Credit generated at institutions on the quarter-term system may not transfer the equivalent number of credits to institutions on the semester-term system. For example, 4.0 quarter hours often transfers as 2.67 semester hours.
Authority for Acceptance of Course Equivalent

Florida Statutes Section 1007.24(7)

Excerpted item 7: 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

Since the initial implementation of the SCNS, specific disciplines or types of courses have been exempted from the guarantee of transfer for equivalent courses. These include courses that must be evaluated individually or courses in which the student must be evaluated for mastery of skill and technique. The following courses are exceptions to the general rule for course equivalencies and may not transfer:

1. Courses not offered by the receiving institution.
2. Courses at non-regionally accredited institutions, courses offered prior to the established transfer date of the course in question.
3. Courses in the 900-999 series are not automatically transferable, and must be evaluated individually. These include such courses as Special Topics, Internships, Apprenticeships, Practica, Study Abroad, Theses, and Dissertations.
5. Graduate courses.
6. Internships, apprenticeships, practica, clinical experiences, and study abroad courses with numbers other than those ranging from 900-999.
7. Applied courses in the performing arts (Art, Dance, Interior Design, Music, and Theatre) and skills courses in Criminal Justice (academy certificate courses) are not guaranteed as transferable. These courses need evidence of achievement (e.g., portfolio, audition, interview, etc.).

Note: Transferability is at the discretion of the receiving institution.

Questions about the SCNS and appeals regarding course credit transfer decisions should be directed to Cynthia Brown Hernandez, the USF System SCNS contact via email at cynthiab@usf.edu or to the Florida Department of Education, Office of Articulation, 1401 Turlington Building, Tallahassee, Florida 32399-0400.

Course Prefix

The course prefix is a three-letter designator for a major division of an academic discipline, subject matter area, or subcategory of knowledge. The prefix is not intended to identify the department in which a course is offered. Rather, the content of a course determines the assigned prefix to identify the course.
GENERAL COURSE INFORMATION

Other General Course Information

Courses offered for credit by the University of South Florida are listed in the 2019-2020 USF Course Inventory (see https://www.systemacademics.usf.edu/course-inventory/). When viewing a course within the USF Course Inventory the first line of each description includes the SCNS prefix and number (see example below) and title of the course. The College and Department are listed below this information. The Course Description, Credit Hours, and requisite information is listed under this information.

You can view this example at https://www.systemacademics.usf.edu/course-inventory/?output=detail&subj=AFA&num=2000.

Course Details

AFA 2000: Introduction to the Black Experience
USF College of Arts & Sciences | School of Interdisciplinary Global Studies

Description: Fundamental perspectives on the nature and significance of the Black Experience in Africa and black communities in the Americas.
Credit Hours: 3
Prerequisites: None
Corequisites: None
Co-Prerequisites: None
Course Requirements: None

Please note: Credits separated by a hyphen indicate variable credit:
- HUM 4905 DIRECTED RESEARCH (1-5)

The following abbreviations are utilized in various course information:
- PR Prerequisite
- CI With the consent of the instructor
- CC With the consent of the chairperson of the department or program
- CP Co-prerequisite
- CR Co-requisite
- DPR Departmental Permit Required
- S/U S/U Grade System
- Lec Lecture
- Lab Laboratory

SPECIAL INFORMATION COURSE CODES
- 6ACT Courses to satisfy the State Communication Requirement
- 6AMT Courses to satisfy the State Computation Requirement

General Education Core Requirements – for students coded under the 2015-2016 and forward Undergraduate catalogs
- SGEC General Education Core Communication
- SGEH General Education Core Humanities
- SGEM General Education Core Mathematics

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GENERAL COURSE INFORMATION

UNIVERSITY OF SOUTH FLORIDA 2019-20 UNDERGRADUATE CATALOG

- SGEN  General Education Core Natural Sciences
- SGES  General Education Core Social Sciences

GENERAL EDUCATION REQUIREMENTS for students graduating under the 2018-2019 Undergraduate catalog
- CST  – Capstone
- CLB  – Collaborative Learning
- TGEC - Creative Thinking
- TGED - Human & Cultural Diversity
- TGEI - Information and Data Literacy
- TGEE - Ethical Reasoning & Civic Engagement
- TGEH - High Impact Practice
- TGEN – ENC 1102

CIVICS LITERACY
- SCIV

GLOBAL CITIZENS PROJECT
- GCPC  Global Citizens Project Course

UNDERGRADUATE RESEARCH
- UGR  – Undergraduate Research

Note: The University reserves the right to substitute, not offer, or add courses that are listed in this catalog.

Course Level Definition

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Course Descriptions

Course information can be found at [https://www.systemacademics.usf.edu/course-inventory/](https://www.systemacademics.usf.edu/course-inventory/). This online resource provides a search function by course prefix, college, department, or title. In addition, course attributes for State Communication and Computation Requirements, General Education, Global Citizens Project, and Undergraduate Research are also available.

The USF Course Inventory provides details regarding course description, credit hours, requisites (Pre, Co, and Co-Pre), repeat limits, restrictions, and attributes.

Academic Plan of Study

The 2019-2020 Undergraduate Academic Plan of Study can be accessed at [https://ugs.usf.edu/catalog/](https://ugs.usf.edu/catalog/)
- Click the Academic Plan of Study option from the left menu. Select the Major/Concentration and click View Selected Plan.

From academic year 2012-2013 to 2018-2019, the Academic Plan of Study were called Eight Semester Plans, and are available in the Undergraduate Catalog Archive.
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Contact Information

College of Arts & Sciences
4202 E. Fowler Avenue, CPR 107
Tampa, FL 33620
(813) 974-6957
https://www.usf.edu/arts-sciences/

Physical Location: BEH 201, the Behavioral Science building, located off the corner of Maple and Willow, on the Sun Dome side of campus.

About the College

USF College of Arts and Sciences is committed to promoting globally-competitive undergraduate, graduate and professional programs that support interdisciplinary inquiry, intellectual development and skill acquisition.

USF’s academic programs are designed to meet the needs of all learners, including traditional learners, special needs learners, adults interested in advancing their careers, veterans and distance learners. The College of Arts and Sciences offers 41 undergraduate majors, 13 undergraduate certificates, 65 graduate programs and 30 graduate certificates. Undergraduates are strongly encouraged to take advantage of a wide range of undergraduate research opportunities and study abroad programs.

Students in the College of Arts and Sciences focus on a specific discipline, but degree programs and opportunities for research and internships encourage students to get a broad, interdisciplinary liberal arts education. The Office of Graduate and Undergraduate Studies helps to oversee the administration of these programs and provides resources for faculty members and students to facilitate effective learning.

Mission, Vision, Values

The College of Arts and Sciences is the intellectual heart of the University of South Florida. We are a community of teachers and scholars united in the belief that broadly educated people are the basis of a just, free, and prosperous society. By focusing on the big questions facing all of humanity, we prepare students for successful personal and professional lives. By conducting innovative, interdisciplinary research and scholarship, we advance knowledge in ways that prepare us to address vexing social problems and enhance quality of life for people and communities.

The College of Arts and Sciences aspires to be a national model for integrating the humanities, social sciences, and natural sciences into a dynamic, trans-disciplinary entity focused on knowledge generation, global problem solving, skills development, and real-world applications. We will nurture academic success for a diverse population by creating engaged, inclusive learning environments that prepare students for productive personal and professional lives as global citizens. Through innovative, interdisciplinary research, creative activities, and mutually beneficial community partnerships, the college seeks to become a global leader in scholarship that addresses vexing social and environmental challenges and consequently enhances quality of life for all.

Admission Requirements

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. The Zimmerman School of Advertising and Mass Communications is a limited access degree program and has additional requirements.
Undergraduate students must submit a formal declaration of major for admission into the College. This usually occurs during orientation and advising for new students. This application is available online for current students at [https://www.usf.edu/arts-sciences/students/undergraduate/declare-a-cas-major.aspx](https://www.usf.edu/arts-sciences/students/undergraduate/declare-a-cas-major.aspx). 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.

**College-Level Graduation Requirements**

1. Students must complete all State and University level graduation requirements.
2. Maintain a minimum GPA of 2.0 in USF coursework. Note: Some Departments/program/major require a higher GPA. Students should refer to Department/program/major specific catalog requirements.
3. Physical Education coursework is limited to two (2) semester hours.
4. ROTC courses that are primarily physical training and field experiences will not be applied to College of Arts and Sciences degree programs. All other military Science coursework will apply, in particular, coursework utilized toward completing an established ROTC minor will be applied to the total hours toward degree.
5. When earning a double major/dual degree, a maximum of two (2) departmental courses or eight (8) credit hours may be used to satisfy requirements between majors. Students should check with the college and respective departments when pursuing more than one major/degree. The only exception whereby a student may apply more than eight (8) credit hours of overlapping coursework to their majors/degrees are those students who pursue double majors or two degrees between the College of Education and the College of Arts and Sciences.
   - The College of Arts and Sciences defines a “major” as those courses taught by the department where the major is housed.
   - In the case of interdisciplinary programs (Biomedical Sciences, Interdisciplinary Natural Sciences, Health Sciences, International Studies, Environmental Science and Policy, French International Studies & Business Concentration, Spanish International Studies & Business Concentration and Interdisciplinary Social Sciences) overlapping coursework between double majors/dual degrees requires prior approval.
6. 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 General Education Core Curriculum Requirements and the State Communication Requirement (formerly known as Gordon Rule Writing) and State Computation Requirement (formerly known as Gordon Rule Math) may not be taken S/U.
7. The Audit option is available only during the first 5 days of classes.
8. “D” grades are not acceptable in the major and supporting sciences for all natural sciences majors (Biomedical Sciences; Cell Biology, Microbiology, and Molecular Biology; Health Science; Integrative Biology; Interdisciplinary Natural Sciences; Medical Technology; Chemistry; Geology; Math; Physics, and Physical Sciences). “D” grades are not acceptable for the major area in Anthropology, Communication, English, Geography, History, Humanities, Mass Communications, Philosophy, Psychology, and Sociology.
9. Complete all major course requirements.
10. Some College of Arts and Sciences Departments/programs/majors have established minimum major course hours to be taken in residency at USF. See the major or program section of the catalog for these credit-hour requirements.
Other Information - Health Professions

The University of South Florida is an excellent location to prepare for a career in the health professions. The Veterans Administration Hospital, University of South Florida Medical Center, Shriner's Hospital for Children, H. Lee Moffitt Cancer Center and Research Institute, University of South Florida Mental Health Institute, University of South Florida Health Byrd Alzheimer's Institute, and Florida Hospital Tampa, are within walking distance of the campus, and offer students excellent opportunities for shadowing, clinical volunteering and research.

The Division of Health Professions Advising (DHPA) in 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, anesthesiologist assistant, occupational therapy and physical therapy. Most of these health professions require four years of undergraduate 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 interest in a health profession. There is considerable overlap between the pre-professional curriculum and the above majors' requirements. However, there is no specific major required for admission into a health profession. Entrance into all professional schools or programs is competitive, and students should begin establishing a record of academic excellence within their first year at USF. Furthermore, it is essential that students also pursue courses in the social sciences and humanities. Students must have shadowing and clinical volunteer experiences related to their intended profession.

Students considering one of the health professions should visit the DHPA website at https://www.cas.usf.edu/healthprofessions/. They can also contact the Division by email at healthprofadvise@usf.edu. Admitted students to USF should declare their interest in a health profession when they attend Orientation.

For specific information about the following programs:

- For information regarding the USF's Medical program, please visit https://health.usf.edu/medicine/.
- For information regarding USF's Physical Therapy program, visit https://health.usf.edu/medicine/dpt/.
- For information regarding the USF's Pharmacy program, visit https://health.usf.edu/pharmacy/.

General Requirements for Health Professions Schools

The following 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**
- B.S.C 2010/2010L Biology I: Cellular Processes and Laboratory
- B.S.C 2011/2011L Biology II: Biodiversity and Laboratory

**Chemistry**
- CHM 2045/2045L General Chemistry I and Laboratory
- CHM 2046/2046L General Chemistry II and Laboratory
- CHM 2210/2210L Organic Chemistry I and Laboratory
- CHM 2211/2211L Organic Chemistry II and Laboratory

**Physics**
- PHY 2053/2053L General Physics I and Laboratory
- PHY 2054/2054L General Physics II and Laboratory
Some schools require calculus and some require one or two courses in biochemistry. CLEP credit is not generally accepted by professional schools. Some schools do not accept AP or IB credit and have specific restrictions for accepting dual enrollment credits. Students should check with the school of their choice regarding acceptable acceleration credit. To be competitive for acceptance into health professions schools, students need to take upper level natural science coursework.

The following websites provide information on the study of medicine, physical therapy, pharmacy and physicians assistant programs at the University of South Florida.

- Allopathic Medicine (MD), visit https://health.usf.edu/medicine/
- Physical Therapy, visit https://health.usf.edu/medicine/dpt
- Pharmacy, visit https://health.usf.edu/pharmacy/
- Physicians Assistant, visit https://health.usf.edu/medicine/pa/

**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 00 prior to transfer to the medical or dental school.
3. Completion of the following courses with at least a C in each course.
4. Completion of the University’s General Education 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 that are 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.
Global Pathways

https://www.usf.edu/gcp/students/index.aspx

A Global Pathway is an undergraduate major or degree program that has significant global content. Global Pathways provide students with the opportunity to practice and apply global competencies through the major or degree program.

The following programs are designated as Global Pathway Programs:

- Anthropology
  https://anthropology.usf.edu/
- Interdisciplinary Social Sciences
  https://iss.usf.edu/
- Religious Studies
  https://religious-studies.usf.edu/
Bachelor of Arts

Africana Studies


This program provides all students with the opportunity to study the history, culture and lived experiences of people of African descent in the United States, Africa, the Caribbean, and elsewhere; study the influence of Africa and people of African descent on world and U.S. thought, culture and politics; study the social construction and consequences of race and racism; develop needed critical thinking skills to address the often narrow and Eurocentric bias in the current knowledge base; and examine their personal experiences, prejudices and possible contributions in a multi-racial, multi-cultural society.

Specializations: African American Studies, African Studies, African Diaspora Studies

Career Options: Africana studies alumni have many career opportunities in the areas of business, communications, government, research, law, politics, teaching and counseling, to mention a few.

Anthropology

https://www.usf.edu/arts-sciences/departments/anthropology/

Anthropology provides excellent preparation for advanced academic degrees, such as those obtained in medical school, law school, and graduate school in anthropology and other social sciences. Thinking anthropologically fosters critical understanding of cultural assumptions, social conventions, information, and even the concept of culture itself. This level of critical thinking builds the skills and attitudes necessary for working and living in diverse social environments.

Specializations: Archaeology, Cultural Anthropology

Career Options: This degree prepares students for a number of careers, including: education, health care, museum curation, social work, international development, historic preservation, government, non-profit management and forensics. Most professional anthropological jobs require a graduate degree.

Chemistry

https://www.usf.edu/arts-sciences/departments/chemistry/undergrad/

The B.A. 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. Students can choose to specialize in biochemistry or health professions. Two semesters of foreign language is required for this degree.

Specializations: Biochemistry, Health Professions

Career Options: This degree will prepare students for a career in entry-level research positions, entry into health professional schools, and graduate programs. Students completing this degree can teach secondary school with additional certification. Students who would like to teach at universities or pursue research positions in science industries and government will need a Ph.D.

Communication

https://www.usf.edu/arts-sciences/departments/communication/

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.

Specializations: Culture and Media, Health Communication, Organizational Communication, Performance Studies, Public Advocacy, Relational Communication

Career Options: Students will develop strong written and verbal communication skills and excellent interpersonal skills, all which are essential to any career. Students will be prepared for careers in education, law, government, nonprofit and business.
Economics

http://economics.usf.edu/undergraduate/ba_ecn.aspx

This degree program fully prepares students for a prosperous career in any number of fields such as business and government. Students pursuing an economics degree learn problem-solving skills that can be applied to any career. Specifically, economics students learn how to allocate scarce resources, estimate demand curves or forecast inflation.

Career Options: This degree prepares students to conduct research, collect and analyze data, monitor economic trends, and develop forecasts on a wide variety of issues, including energy costs, inflation, interest rates, exchange rates, business cycles, taxes and employment levels. Economists can be found working for corporations, banks, government, academia or consulting agencies.

English

https://www.usf.edu/arts-sciences/departments/english/undergraduate/

Students can choose from three specializations in the English program. Technical Communication and New Media prepares students to work as innovative professional communicators in a variety of fields. Literary Studies provides a solid foundation in the study of British and American literature, which can provide students with many skills such as critical thinking and effective self-expression. The creative writing program is designed for aspiring writers of fiction, poetry and creative nonfiction.

Specializations: Technical Communication and New Media, Literary Studies, Creative Writing

Career Options: An English degree prepares students for a wide array of professional and educational fields, including teaching and higher education, law, editing and publishing, corporate and not-for-profit management, medical school, and graduate study in English as well as other disciplines.

Geography

http://hennarot.forest.usf.edu/main/depts/geosci/

This program offers a variety of courses in physical and human geography. Human geography courses 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. Physical geography courses focus on major environmental systems including the hydrosphere, atmosphere, pedosphere and biosphere. Particular emphasis is placed on the human modification of the natural environment and the global interconnections of the major earth systems.

Career Options: Geography is an interdisciplinary field that offers diverse career opportunities. Geographers work in many different areas, such as environmental management, education, disaster response, city and county planning and community development.

Geology

http://hennarot.forest.usf.edu/main/depts/geosci/

The B.A. 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. Students who elect the B.A. program and decide to pursue the geology profession or attend graduate school will need to take at least physics and field geology.

Career Options: The B.A. program meets the needs of many students who plan to use geology as a basis for careers in law (environmental, oil, gas, etc.), medicine, technical writing, education, and resource-related sales and marketing, to name a few possibilities.

History

http://history.usf.edu/ug/

History embraces a diverse world of ideas, people and events. Our faculty seeks to inform and question, to provoke and to challenge students to a higher level of understanding of the past.

Career Options: Accomplished history majors are attractive to all kinds of employers in any number of fields, as well as to graduate and professional schools. Alumni can be found in such diverse professions as law, medicine, business, government, foreign service, politics and education.
Humanities & Cultural Studies
http://humanities.usf.edu/undergraduate/

This degree focuses on the complex interconnections between the arts, social structures, and history. Interdisciplinary and global in scope, our courses provide students with opportunities for detailed cultural analysis in a broad historical and intellectual context. We create an interdisciplinary curriculum emphasizing material culture, music, literature, intellectual history, and social history in order to understand how the arts participate in the cultural construction of social reality. We welcome students who are dedicated, open-minded and willing to work across traditional academic disciplines. The major develops students’ analytical, research and writing skills, as well as their creative and technical abilities.

Specializations: Humanities, American Studies, Film and New Media Studies

Career Options: This degree is a great preparation for graduate school and a variety of jobs. Many alumni go on to careers in law, medicine, business, education and publishing. Most film studies students directly enter the communications job market. Advertising, public relations, technical writing, educational media and freelance filmmaking, just to name a few.

Interdisciplinary Classical Civilization
http://languages.usf.edu/undergraduate/classics/

Interdisciplinary Classical Civilizations is a broad-based area study encompassing the literature, history, linguistics, art, archaeology, philosophy and religion of Greece, Rome and the Near East from prehistory to late antiquity. Two semesters of Greek or Latin are required.

Career Options: This is an excellent all-around liberal arts degree that serves as a superb preparation for virtually any field of professional endeavor. Many alumni pursue careers in law, medicine, business, education and publishing.

Interdisciplinary Social Sciences
http://iss.usf.edu/

This program provides students with the flexibility to pursue a course of study from a range of disciplines. Rather than simply looking at the world through the lens of one discipline, the core of the ISS program encourages students to think in interdisciplinary ways. ISS majors gain an understanding of the linkages between social science disciplines, and develop the ability to creatively synthesize the tools of these traditional disciplines to examine and analyze social issues in new ways.

Career Options: Graduates are prepared for the holistic problem solving required in the public and private sector (business, government, legal and nonprofit), as well as further study in graduate school.

International Studies
https://www.usf.edu/arts-sciences/departments/school-of-interdisciplinary-global-studies/

This program provides a general background in world affairs with a special emphasis on political and economic aspects. Courses focus on both general topics (such as conflict, globalization, terrorism and human rights) and area or country studies (the Middle East, Russia, China, Japan and Latin America are among the current offerings).

Career Options: Graduates from the program have pursued careers in government, business or non-government organizations that deal with international or global issues. Others have continued their education by attending graduate school or law school.

Mass Communications
http://masscom.usf.edu/ug/ba.aspx

The mass communications program is a conditional access program, meaning there are additional admission requirements after a student has been admitted to USF. Students will have numerous opportunities to gain hands-on experience outside of the classroom by working for the campus TV station or campus newspaper. In addition, the School of Mass Communications is home to the Zimmerman Advertising Program. ZAP is a unique partnership with Zimmerman Advertising, the 13th-largest agency in the U.S., and features Zimmerman's top executives who teach USF students the latest skills necessary to thrive in the advertising industry.

Specializations: Advertising, News (Editorial), Magazine, Telecommunications (News), Telecommunications (Production), Public Relations
Career Options: Students are taught to think critically, report accurately, research thoroughly and write clearly and effectively, skills that are essential for any career. This degree will prepare students for careers in newspapers, magazines, broadcasting, advertising and public relations. Located in Florida’s largest media market, USF students can take advantage of numerous internships offered in the Tampa Bay area.

Mathematics
http://math.usf.edu/ug/math/

This program offers diverse courses designed not only to enable the student to pursue a profession in mathematics itself, but also to enhance the student's competence in the fields of engineering, the physical sciences, the life sciences and the social sciences. The program emphasizes the broad nature of modern mathematics and its close associations with the real world and prepares students for careers in industry or secondary education as well as entry into graduate school.

Career Options: Mathematics is good preparation for a variety of careers, many of which make no special use of mathematics itself, but do require the ability to reason carefully and express oneself clearly. Alumni can be found working as an actuary, industry mathematician, educator or researcher. Almost every bureau and branch of the federal government -- including the Department of Health and Human Services, Department of Energy, Department of Defense and the National Security Agency -- employ mathematicians in various capacities.

Philosophy
http://philosophy.usf.edu/undergraduate/

The concerns of philosophy range from the arts, the methods and foundations of the sciences, politics, education and religion, to the complex questions relating to the meaning of reality, truth, values and the significance of human history.

Career Options: This program provides skills that are useful in any career that demands critical thinking skills, creative problem solving skills, the ability to explain and see ideas, the ability to understand and organize complex information, analytical thinking skills, communication skills, writing skills, comfort with disagreement, calm and rational thinking, and an ability and interest in understanding ideas. Graduates go on to medical school, law school, graduate school or choose to enter the workforce in public, private, governmental and nonprofit agencies.

Physics
http://physics.usf.edu/ug/

This program offers the student a general cultural background with a specialization in physics, offering a wide flexibility in electives. This gives the student the possibility to combine the physics major together with a concentration in other areas such as biology, chemistry, mathematics, engineering, computer science, premedical science, business, geology or social sciences.

Career Options: Students develop essential job skills such as problem solving, information handling, critical reasoning, logical thought, clear communication and use of computers as an analysis tool. Graduates can be found working in education, medicine, public service, management and research.

Physical Sciences
http://physics.usf.edu/ug/degree/

The degree in Physical Sciences will prepare students for employment in technical fields requiring a background in one or more of the physical sciences.

Political Science
https://www.usf.edu/arts-sciences/departments/school-of-interdisciplinary-global-studies/

This program provides students with a detailed study of the institutions and processes of American government, foundations in political theory, as well as an examination of the international system and foreign political systems through the study of international relations and comparative politics.

Career Options: This program prepares students for careers in law, government, political consulting, lobbying, nonprofit sector, education and publishing, just to name a few.
Psychology
http://psychology.usf.edu/ug/major/

This program prepares students to better understand behavior and mental processing. The program emphasizes critical thinking skills and knowing how to formulate effective questions and research the answers.

Career Paths: Many graduates go on to graduate study in psychology, counseling, law or medical school and other graduate programs. Other graduates find employment in various organizations and businesses.

Religious Studies
http://religious-studies.usf.edu/ugrad/about/

Religious Studies is concerned with those features of the human experience that commonly are referred to as sacred or religious. The matter of the sacred or religious deals with what human cultures and societies regard as the most important and of ultimate concern, past and present.

Career Options: The vast majority of religious studies majors do not become members of the clergy, but go on to lead their fields in many other areas. This program is an excellent preparation for law, business school, medicine, or graduate study in counseling, humanities or administration. Additionally, many people with religious studies degrees find employment in social services, international relations, music, and health and welfare organizations, and many others start businesses, found nonprofit organizations, just to name a few.

Sociology
http://sociology.usf.edu/ug/major/

Sociology is the study of social life and the social causes and consequences of human action. It investigates the structure of groups, organizations and societies ranging 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 culture; from the workplace to the intimate corners of private life. Students acquire a broad liberal arts education and a greater understanding and insight into the social systems and processes that bear upon everyday lives.

Career Options: Employment opportunities 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.

Statistics
http://math.usf.edu/ug/stats/

Statistics is a science of information gathering, data analysis, and decision making. It is a discipline that blends the applied with the theoretical. These courses provide an excellent preparation for careers in industrial statistics, actuarial science, biostatistics and statistical research.

Career Options: Statistics can be used in a wide variety of fields within science, technology, business, health and social sciences. Statistics graduates work in education, banking and finance, production management, insurance, risk management, health and medicine, and government.

Women's and Gender Studies
http://wgs.usf.edu/undergrad/

This program critically examines women's experiences and takes into consideration historical, cultural, racial, class and other differences. Enhancing knowledge about feminism and gender studies through teaching, emphasis on multiculturalism and diversity, the department focuses on critical thinking, collaborative learning and personal empowerment.

Specializations: Women of Color Studies

Career Options: This program prepares students for positions in organizations that focus on gender and diversity issues, such as government, research and service organizations. Students graduate with strong writing, critical thinking, research, public presentation and leadership skills that are valued by many employers.

World Languages and Cultures
http://languages.usf.edu/undergraduate/

The B.A. in World Languages and Cultures offers students a solid foundation in language and linguistic skills as well as knowledge of diverse cultures. Students may choose one concentration or may combine two concentrations.
Bachelor of Science

Biomedical Sciences
https://www.usf.edu/arts-sciences/departments/chemistry/undergrad/

This program is designed to fulfill many of the admissions requirements for professional schools in the health sciences (e.g., medicine, pharmacy, dentistry). Students contemplating graduate study should pursue a major in the discipline of their interest, such as biology, chemistry or microbiology.

Career Options: Most students pursuing this degree wish to attend graduate or professional school in medicine, optometry, dentistry or biomedical research. This degree can prepare students for a variety of research positions for government agencies and health care companies.

Cell and Molecular Biology

This degree provides a strong foundation in general biology, with an emphasis on biomedical related areas, but focuses on the cellular and molecular processes that occur within cells.

Career options: This program prepares students for application to medical school, dental school, graduate school, and many careers especially in the fields of biotechnology, science policy, biomedical research, genomics, and computational biology.

Chemistry
https://www.usf.edu/arts-sciences/departments/chemistry/undergrad/

The B.S. in chemistry is a rigorous program that supplies the foundation in chemistry required for both 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 this degree meets the requirements set by the American Chemical Society.

Career options: This degree will prepare students for a career in entry-level research positions, entry into health professional schools, and graduate programs. Students completing this degree can teach secondary school with additional certification. Students who would like to teach at universities or pursue research positions in science industries and government will need a Ph.D.

Environmental Biology

Environmental Biology is the study of how organisms interact with the environment, and how they adapt to changing environments. It explores the interconnections among biology, ecology, evolution, and conservation. The objective of this program is to provide students with a firm foundation in basic biology and the tools necessary to function as professional biologists, with a special emphasis on natural ecosystems.

Environmental Microbiology

The objective of this program is to provide students with a firm foundation in basic biology and the tools necessary to function as professional biologists, with a special emphasis on environmental microbiology. Coursework within the Environmental Microbiology major can lead to ASM certification.

Environmental Science and Policy
http://hennarot.forest.usf.edu/main/depts/geosci/ug/students/

Students take supporting courses in physical and natural science, statistics, policy and ethics. In addition, students select electives to strengthen their knowledge within their concentration. Seniors complete a research project or work as an intern for a government agency or private company.

Specializations: Environmental Science, Environmental Policy

Career Options: This program prepares students for a variety of careers such as environmental policy, environmental science, environmental law, nonprofit and education. Potential employers include the Environmental Protection Agency, NOAA, engineering firms, nonprofit environmental agencies, consulting companies and state/local government.
Geology
http://hennarot.forest.usf.edu/main/depts/geosci/

**Overview:** 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. Geologists study landslides, earthquakes, floods and volcanoes. This program provides the student with a hands-on foundation in the fundamentals of geosciences. A summer field camp is offered for students to learn crucial skills needed by every geologist. Students will be prepared to sit for the state of Florida exam to earn their geologist license.

**Career Options:** Geologists work in a variety of settings. These include: natural resource companies, environmental consulting companies, government agencies, nonprofit organizations and universities. Many geologists do field work at least part of the time. Others spend their time in laboratories, classrooms or offices.

Health Sciences
https://www.usf.edu/arts-sciences/departments/information/programs/undergraduate-programs/health-sciences/index.aspx

This degree is designed as an interdisciplinary program for students who intend to pursue a professional career in the health sciences and allied health professions. The major offers coursework that promotes an understanding of the biological, social, behavioral, economic and ethical factors that influence health care today and disease treatment. The degree has a flexible curriculum so students can choose an area of specialization to suit their career interests.

**Career Options:** This program prepares students for employment in a community agency, a diagnostic laboratory, a hospital, or a pharmaceutical company.

Information Studies
https://www.usf.edu/arts-sciences/departments/information/programs/undergraduate-programs/information-studies/index.aspx

This program integrates a strong foundation in information technology as well as an understanding of human, organizational, policy and other issues.

**Career Options:** Areas that information science professionals work in include: information architecture, information management, knowledge discovery in databases/data mining, human computer interaction, information retrieval/extraction, natural language processing, semantic interoperability, systems analysis and design, library science, informatics (various contexts, such as medical, legal, music, museum, etc.) and a host of areas where information technology is central.

Integrated Animal Biology

Integrative Animal Biology is the study of the biology of animals, including humans. It explores the structure and function of invertebrates, vertebrates, and humans. The objective of this program is to provide students with a firm foundation in basic biology and the tools necessary to function as professional biologists, with a special emphasis on animals.

**Career Options:** It will prepare students for further education in medicine, veterinary medicine, animal biology, and evolutionary biology or for careers in fields such as medical assistance, veterinary assistance, animal care, and aquarium and zoo biology and education.

Interdisciplinary Natural Sciences
https://www.usf.edu/arts-sciences/departments/chemistry/undergrad/

This degree offers flexibility for the student interested in the broad spectrum of natural sciences. The interdisciplinary natural sciences program features the introductory sequence in all of the five natural sciences: biology, chemistry, geology, mathematics and physics.

**Career Options:** This program will prepare students for entry into health professional schools and graduate programs. Students completing this degree can teach secondary school with additional certification. Students who would like to teach at universities or pursue research positions in science industries and government will need a Ph.D.
Marine Biology

Marine Biology is the study of life in the oceans. It explores the unique marine environment and the nature of the organisms that inhabit the oceans. The objective of this program is to provide students with a firm foundation in basic biology and the tools necessary to function as professional biologists, with a special emphasis on marine ecosystems.

Career options: It will prepare students for further education in ecology, marine science, biological oceanography, and evolutionary biology or for careers in fields such as aquaculture, animal husbandry, aquarium biology and education, conservation biology and education, environmental consulting, and wildlife biology.

Medical Technology
https://www.usf.edu/arts-sciences/departments/chemistry/undergrad/

This program teaches students to exercise independent judgment, correlate test results, and interpret test findings. This program includes three years of study on campus and a fourth year of internship at one of three participating hospitals: Tampa General (Tampa), Bayfront Medical Center (St. Petersburg, Fla.) and St. Vincent's Hospital (Jacksonville, Fla.). Our students have a nearly 100 percent success in job placement and in passing licensure exams.

Career Options: This program will prepare students for a career as medical technologists, or clinical laboratory scientists, who analyze human blood, tissues and bodily fluids, or supervise the performance of thousands of types of medical laboratory tests using a wide variety of precision instruments. They also may conduct research and develop scientific methods to advance the study of disease processes.

Microbiology
http://biology.usf.edu/cmmb/undergrad/micro/

This degree emphasizes a comprehensive program of coursework designed to cover the various subdisciplines of microbiology, together with requirements for hands-on laboratories to expose the students to practical aspects of microbiology.

Career Options: Microbiology is an excellent preparatory major for students interested in medical, dental and other health professional training. There are opportunities for employment in government, hospitals, public health laboratories, research laboratories and industrial laboratories (e.g. food, chemical and pharmaceutical companies). Graduates can teach secondary school, as long as they meet teaching certification requirements.

Physics
http://physics.usf.edu/ug/

This is a professional program designed to meet today’s standard of science and technology, opening doors to industrial and governmental jobs, and the appropriate level of physics for those students who intend to proceed with graduate studies in physics or related fields.

Career Options: Some of the better-known careers for physics majors include academic and industrial research, electronics, alternative energy development, communications or the vital area of medical physics. Physicists are in demand for their analytical skills in many financial, fund management and research roles, in law, as weather forecasters, computer programmers, and as physics and science teachers.

Physical Sciences

The degree in Physical Sciences will prepare students for employment in technical fields requiring a background in one or more of the physical sciences.

Quantitative Economics & Econometrics
http://economics.usf.edu/data/econ-bs-sheet.pdf

Students pursuing an economics degree learn problem-solving skills that can be applied to any career. Specifically, economics students learn such things as how to allocate scarce resources, estimate demand curves or forecast inflation.
Career options: This degree prepares students to conduct research, collect and analyze data, monitor economic trends, and develop forecasts on a wide variety of issues, including energy costs, inflation, interest rates, exchange rates, business cycles, taxes and employment levels. Economists can be found working for corporations, banks, government, academia or consulting agencies.

Accelerated Programs

Accelerated Degree Programs

- B.S. Biomedical Sciences/M.A.T. Science Education
- B.S. Biology/M.S. Biology (non-thesis)
- B.S. Cell and Molecular Biology/M.S. in Biology (non-thesis)
- B.A. Chemistry/M.A.T. Science Education
- B.S. Chemistry/M.S.B.E. Biomedical Engineering
- B.S. Environmental Biology/M.A.T. Science Education
- B.S. Environmental Microbiology/M.A.T. Science Education
- B.A. Humanities and Cultural Studies/M.A. Liberal Arts
- B.S. Integrative Animal Biology/M.A.T. Science Education
- B.S. Marine Biology/M.A.T. Science Education
- B.A. Mathematics/M.A. Mathematics
- B.S. Microbiology/M.S. Microbiology
- B.A. Physics/M.A.T. Science Education

Minors

Minors are offered in the following areas:

- Africana Studies
- American Studies
- Anthropology
- Astronomy
- Biomedical Anthropology
- Biomedical Physics
- Chemistry
- Chinese Language
- Classics
- Communication
- Creative Writing
- Economics
- Environmental Policy
- Film and New Media Studies
- French
- Geographic Information Systems and Technology
- Geology
- German Studies
- History
- Humanities
- Intelligence Studies
- Interdisciplinary Classical Civilizations
- International Studies
- Italian
- Linguistics
- Literary Studies
- Mass Communications
- Mathematics
- Microbiology
- Modern Greek
- Philosophy
- Physics
- Political Science
- Professional Writing, Rhetoric and Technology
- Psychology
- Public Administration
- Queer & Sexual Studies
- Religious Studies
- Russian Studies
- Sociology
- Spanish
- Urban Studies
- Women's and Gender Studies
Concentrations

A concentration is any organized set of courses that is offered as part of a major and enhances or complements the degree program to be awarded in a manner that leads to specific educational or occupational goals, and/or from different disciplines that provide an interdisciplinary focus.

CHEMISTRY:
- Biochemistry/Biotechnology
- Health Professions

ENGLISH:
- Creative Writing
- Literary Studies
- Professional Writing, Rhetoric and Technology

GEOGRAPHY:
- General Geography
- Physical Geography
- Human Geography

HEALTH SCIENCES:
- Aging Health Studies and Health Management
- Social and Behavioral Health Sciences and Aging Health Studies
- Biological Health Sciences and Health Studies
- Biological Health Sciences
- Biological Health Sciences and Health Information
- Biological Health Sciences and Health Management
- Social and Behavioral Health Sciences
- Biological Health Sciences and Health Management
- Social and Behavioral Health Sciences
- Health Information Technology
- Health Management
- Aging Health Studies and Health Information Technology
- Social and Behavioral Health Sciences and Health Management
- Health Management and Health Information Technology
- Biological Health Sciences and Social and Behavioral Health Sciences
- Social and Behavioral Health Sciences and Health Information Technology

HUMANITIES AND CULTURAL STUDIES:
- American Studies
- Film and New Media Studies
- Humanities

INFORMATION STUDIES:
- Data Science and Analytics
- Health Information
- Information Security
- Information Science and Technology

INTERDISCIPLINARY SOCIAL SCIENCES:
- Africana Studies
- Aging Sciences
- American Studies
- Anthropology
- Criminology
- Mass Communications
- Communication Sciences and Disorders
- Deaf Studies
- Economics
- Environmental Science and Policy
- Geography
- Humanities
- History
- Information Studies
- International Studies
- Latin American, Caribbean, and Latino Studies
- Multidisciplinary Behavioral Sciences
- Public Administration
- Political Science
- Psychology
- Public Health
- Religious Studies
- Sociology
- Communication
- Women's and Gender Studies

MASS COMMUNICATIONS:
- Advertising
- Journalism-News-Editorial
- Journalism-Magazine
- Broadcast News
- Broadcast-Program and Production
- Public Relations

MATHEMATICS:
- Applied/Computational Mathematics
- General Mathematics
- Pure Mathematics

SOCIOMETRY:
- Identity and Community
- Inequality and Social Justice

WORLD LANGUAGES AND CULTURES:
- Applied Linguistics
- Chinese Language and Culture
- Classics
- East Asian Languages and Cultures
- French International Studies and Business
- French
- German
- Interdisciplinary Classical Civilizations
- Italian
- Russian
- Spanish International Studies and Business
- Spanish
A certificate is a non-degree program designed to provide students with specialized knowledge that is less extensive than, and different from, a degree program. Certificates are offered in the following areas:

**Africana Literatures**

The Certificate in Africana Literatures 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.

**Agricultural Sustainability and Food Biosecurity**

The certificate is designed to enhance majors within the Integrative Biology Department, particularly majors in Environmental Biology. It addresses a national need for increased agricultural training opportunities outside Land Grant institutions. The certificate will enhance the student's academic growth, facilitate the student's use of academic training to address important societal problems, and improve the student's prospects of finding gainful employment.

**Arabic Language and Culture**

This certificate is constructed for individuals who are pursuing a bachelor's degree in any field and are interested in developing their knowledge and understanding of the Arabic language and Middle Eastern culture. This certificate will prepare students for working in global business companies, the U.S. Department of State and other governmental or diplomatic positions, research centers, etc. in the future. It is offered through the Department of World Language Education.

**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. Courses counted for the Certificate also may be counted for the major (when applicable).

**Food 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. The certificate requires a total of 12 credit hours and will be effective as of fall 2012.

**Italian Studies**

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.

**Japanese**

The certificate is constructed for individuals who are pursuing a bachelor's degree in any field and desire to advance their Japanese learning. By developing individuals' knowledge and understanding for the Japanese language and culture, this certificate will prepare them for working in Japan or for Japanese companies, working as a foreign service officer in the U.S. Department of State, or applying for the Japanese Exchange and Teaching (JET) program, etc. in the future. The certificate is offered through the Department of World Languages.

**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.
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.

National Intelligence
The Certificate Program in National 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.

Russian Studies
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.

Undergraduate Advising Information
The College of Arts and Sciences' decentralized advising provides students the opportunity to work with a professional who has specialized knowledge and understanding of the major requirements, course offerings, and undergraduate research and career opportunities in their field. In addition to major advising, the college offers pre-professional advising for students intending to pursue careers in law and the health professions. Each program has its own advising office. The advisor should be contacted for information on curriculum planning, graduation requirements, and admission to professional schools.

For more information, see https://www.usf.edu/arts-sciences/students/academic-advising/undergraduate-advising.aspx

Undergraduate Advisors List
https://www.usf.edu/arts-sciences/students/academic-advising/undergraduate-advising.aspx

- **Current Undergraduate Students**: Schedule an appointment with an adviser by using the [http://usfweb.usf.edu/eScheduler/student.aspx](http://usfweb.usf.edu/eScheduler/student.aspx). Login in required.
- **Transfer Students**: Please see the information at [https://www.usf.edu/arts-sciences/students/academic-advising/new-transfer-students.aspx](https://www.usf.edu/arts-sciences/students/academic-advising/new-transfer-students.aspx) to schedule an appointment with an advisor.
- **Health Professions Advising**: Please refer to [http://cas.usf.edu/healthprofessions/advising/](http://cas.usf.edu/healthprofessions/advising/).
- **Pre Law Advising**: Available through the School of Interdisciplinary Global Studies located in SOC352 to make an appointment please call 813-974-2384.
- **Interested prospective students or Non USF students who do not have a USF ID number**: Schedule appointments using the Nonstudent eScheduler at [http://usfweb.usf.edu/eScheduler/NonStudentlogin.aspx](http://usfweb.usf.edu/eScheduler/NonStudentlogin.aspx).
Africana Studies is a liberal arts program offering a Bachelor of Arts in Africana Studies, a Minor in Africana Studies and a Certificate in Africana Literatures. This program provides all students with the opportunity to study the history, culture and lived experiences of people of African descent -- on the African continent and throughout the world. Students also study the influence of Africa and people of African descent on the world at-large. The Africana Studies curriculum also explores the social construction of race and racism and encourages the development of critical thinking skills while also challenging students to explore new ideas, seek new connections and become actively engaged in the global community.

STATE MANDATED COMMON COURSE PREREQUISITES

Students desiring to transfer to USF should complete an A.A. degree at a Florida College System institution. If students transfer with fewer than 60 semester hours of acceptable credit, the students must meet the University’s entering freshman requirements including ACT or SAT test scores, GPA, and course requirements. Transfer students are also required to comply with the immunization, foreign language, and continuous enrollment policies of the university.

There are no State Mandated Common Prerequisites for this program.

REQUIREMENTS FOR THE MAJOR IN AFRICANA STUDIES

TOTAL MAJOR HOURS: 36

MAJOR REQUIREMENTS FOR THE B.A. DEGREE:

MAJOR CORE (15 HOURS)

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

MAJOR ELECTIVES (21 HOURS)

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

- AFA 4150 Africa and the United States
- AFA 4335 Black Women in America
- AFA 4350 African American Community Research
- AFA 4430 Afro-Diasporic Literature and Political Movements
- AFA 4500 Slavery in the Americas and the Caribbean
- AFA 4900 Directed Readings
- AFA 4931 Selected Topics in Africana Studies
- AFS 2250 Culture and Society in Africa
- AML 3604 African American Literature
- AML 4624 Black Women Writers
RESEARCH OPPORTUNITIES

All undergraduate students in any degree program can participate in undergraduate research. There are a number of options to receive academic credit for a mentored research experience and to have the experience show on the official transcript. Students who wish to enroll in an undergraduate research course should consult with their academic advisor to understand how the credit will apply towards the degree requirements. If no credit is needed, students may be eligible to enroll in the 0-credit IDS 2912, IDS 4914 or IDH 4910 courses. These courses will not impact degree credits or GPA but will show on an official transcript and document the experience. The Office of Undergraduate Research will assist students in understanding the various course options.

ADVISING INFORMATION

Pamela Anderson
Social Science Building (SOC) 389
pkander2@usf.edu

AFRICANA STUDIES FACULTY

Chairperson: S. Tauber; Associate Professors: E. Kissi, C. Rodriguez, K. Simeon-Jones; Assistant Professors: H. Dunn, O. Jolaosho, D. Ponton; Instructor: L. Lahey; Other Faculty: H.R. Kaplan, S. Moore,

B.A. - ANTHROPOLOGY (ANT)

(CIP = 45.0201)
TOTAL DEGREE HOURS: 120

http://anthropology.usf.edu/undergrad/major/

Certified Global Pathway Program

Anthropology aims at comprehending people as biological and social beings. It is concerned with all forms of people through time and space. This holistic and broad-ranging view is reflected by the presence within anthropology of four branches or sub-fields: 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. Students majoring in other fields may find anthropology coursework an exciting and valuable supplement to their primary academic interest.

This program has been certified as a Global Pathway. Global Pathway programs have significant global content and align with the goals of USF’s Quality Enhancement Plan, the Global Citizens Project. Students in Global Pathway programs are well positioned to earn the Global Citizen Award and become eligible to apply for a study abroad scholarship offered by the Global Citizens Project.

STATE MANDATED COMMON COURSE PREREQUISITES

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 General Education 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.
Transfer students are also required to comply with the immunization, foreign language, and continuous enrollment policies of the university.

Students should complete the following prerequisite courses 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 in prerequisite courses.

- ANT XXXX Two Introductory Courses in Anthropology (ANT prefix)

REQUIREMENTS FOR THE MAJOR IN ANTHROPOLOGY

TOTAL MAJOR HOURS: 37

MAJOR REQUIREMENTS FOR THE B.A. DEGREE:

MAJOR CORE (19 HOURS)

- ANT 2410 Cultural Anthropology
- ANT 2511 Biological Anthropology
- ANT 2511L Biological Anthropology Laboratory
- ANT 3101 Archaeology
- ANT 3610 Linguistic Anthropology
- ANT 4034 Theories of Culture
- ANT 4701 Applied Anthropology

MAJOR ELECTIVES (18 HOURS)

Students are required to complete a minimum of 18 hours of 4000-level elective coursework, including at least one course from each subfield, from the courses listed below. 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.

- Archaeology Subfield
  - ANT 4012 Fantastic Archeology
  - ANT 4142 Old World Archaeology
  - ANT 4143 European Archaeology
  - ANT 4147 Environmental Archaeology
  - ANT 4153 North American Archaeology
  - ANT 4158 Florida Archaeology
  - ANT 4165 South American Archaeology
  - ANT 4163 Mesoamerican Archaeology
  - ANT 4172 Historical Archaeology
  - ANT 4180 Laboratory Methods in Archaeology
  - ANT 4181 Museum Methods
  - ANT 4183C Archaeological Science
  - ANT 4185 Ancient Diets
  - ANT 4260 Ancient Trade
  - ANT 4536 Bioarchaeology
  - ANT 4824 Archaeological Field Methods
• Biological Anthropology Subfield
  o ANT 4468 Biocultural Bases of Health and Disease
  o ANT 4516 Human Variation
  o ANT 4520C Forensic Anthropology
  o ANT 4525 Human Osteology and Osteometry
  o ANT 4532 Anthropology of Infectious and Contagious Diseases
  o ANT 4536 Bioarchaeology
  o ANT 4586 Prehistoric Human Evolution
  o ANT 4593 Evolution and Health

• Cultural Anthropology Subfield
  o ANT 4014 Anthropology of American Culture
  o ANT 4241 Anthropology of Religion
  o ANT 4243 Middle East and North Africa
  o ANT 4285 Oral History
  o ANT 4302 Gender in Cross-Cultural Perspectives
  o ANT 4312 North American Indians
  o ANT 4316 Ethnic Diversity in the United States
  o ANT 4323 Mexico and Central America
  o ANT 4340 The Caribbean
  o ANT 4390 Visual Anthropology
  o ANT 4401 Exploring Cross-Cultural Diversity
  o ANT 4403 Environmental Anthropology
  o ANT 4432 The Individual and Culture
  o ANT 4442 Urban Life and Culture
  o ANT 4462 Health, Illness, and Culture
  o ANT 4465 Anthropology of Food
  o ANT 4472 Work and Migration in the Americas
  o ANT 4475 Anthropology of Childhood
  o ANT 4495 Methods in Cultural Research
  o ANT 4532 Anthropology of Infectious and Contagious Diseases
  o ANT 4620 Language and Culture
  o ANT 4750 Language and Social Interaction
  o ANT 4935 Rethinking Anthropology
  o URS 3002 Introduction to Urban Studies
• Methods Courses (3 credit hours):
  o ANT 4180 Laboratory Methods in Archaeology
  o ANT 4181 Museum Methods
  o ANT 4183C Archaeological Science
  o ANT 4185 Ancient Diets
  o ANT 4260 Ancient Trade
  o ANT 4285 Oral History
  o ANT 4390 Visual Anthropology
  o ANT 4403 Environmental Anthropology
  o ANT 4465 Anthropology of Food
  o ANT 4495 Methods in Cultural Research
  o ANT 4520C Forensic Anthropology
  o ANT 4525 Human Osteology and Osteometry
  o ANT 4824 Archaeological Field Methods
  o ANT 4932 Honors Seminar

ANT 4930 Special Topics in Anthropology may count toward the major and within a particular subdivision depending on the specific topic. Please consult the advisor for details. No more than 4 hours combined of ANT 4901 Directed Reading, ANT 4905 Individual Research, and/or ANT 4940 Internship may count towards the 18 hours of electives.

GPA REQUIREMENTS
In order to graduate, students must maintain an average best attempt 2.5 GPA in all courses counted toward the major.

RESIDENCY REQUIREMENT
Fifty percent of the major coursework must be completed at USF Tampa.

RESEARCH OPPORTUNITIES
There are a number of options to receive academic credit for a mentored research experience and to have the experience show on the official transcript. Students who wish to enroll in an undergraduate research course should consult with their academic advisor to understand how the credit will apply towards the degree requirements. Students may do a Directed Reading (ANT 4901) or Individual Research (ANT 4905) with credits applying to the major. If no credit is needed, students may be eligible to enroll in the 0-credit IDS 2912, IDS 4914 or IDH 4910 courses. These courses will not impact degree credits or GPA but will show on an official transcript and document the experience. The Office for Undergraduate Research will assist students in understanding the various course options.

INTERNSHIP OPPORTUNITIES
Through the internship program, anthropology students have the opportunity to receive educational, hands-on training from various organizations, agencies, companies or institutions for credit. The course includes an exploration of the ethics of applied anthropology and careers in applied settings, such as community organizing, forensics, public/community health, or cultural resource management. Students will complete field journals and receive feedback from advisers throughout. This course fulfills selective credits required for the completion of the anthropology program. For more information, please visit: http://anthropology.usf.edu/internships/
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 first semester of their junior year, prior to completion of 90 semester hours, may apply to the program.

Admission is competitive, based on the student's overall academic record:

- Minimum overall 3.25 GPA,
- 3.5 GPA for USF Anthropology coursework,
- A two-page, personal statement indicating research interests, and
- A letter of recommendation and commitment from a faculty member of the Department of Anthropology.

Successful completion of the program requires:

- Maintenance of an overall 3.25 GPA,
- Maintenance of a 3.5 GPA in the major,
- Completion of ANT 4932 Honors Seminar, with a grade of B or better,
- Completion of ANT 4970 (3) (Honors Thesis) with a grade of "S,"
- Presentation of the research at the Department's Honors Colloquium
- Completion of all other requirements for graduation.

Please see the Anthropology Department undergraduate advisor for further information and application forms.

OTHER INFORMATION

Anthropology majors are urged to become competent readers and speakers of a relevant foreign language (which may include American Sign Language, Latin, or Greek, depending on their interests). They are also urged to enhance their English reading, writing, speaking and critical thinking capabilities and develop their skills in computational, statistical and other forms of quantitative analysis at every opportunity. Students are encouraged to fulfill General Education and Exit requirements with courses relevant to their interests in anthropology whenever possible. In pursuit of all these goals, they should meet with the department's undergraduate advisor at least once each semester to discuss such topics as academic progress, future course plans, Anthropology's Honors Program, summer field schools, job opportunities, graduate education and professional careers in anthropology.

ADVISING INFORMATION

AnthroAdvise@usf.edu

ANTHROPOLOGY FACULTY

B.S. - BIOMEDICAL SCIENCES (BMS)
(CIP = 26.0102)
TOTAL DEGREE HOURS: 120

http://chemistry.usf.edu/undergraduate/majors/biomed/

The Biomedical Sciences degree serves as a gateway into a variety of health-professional programs such as Medicine, Pharmacy, Dentistry, and Physician Assistant. Required courses include Biology, Chemistry, Math, and Physics. This degree provides the flexibility to choose advanced-level science coursework based on academic and professional interests. Students contemplating graduate study should pursue a major in the discipline of their interest, such as Biology, Chemistry, or Microbiology.

STATE MANDATED COMMON COURSE PREREQUISITES

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 General Education 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.

Transfer students are also required to comply with the immunization, foreign language, and continuous enrollment policies of the university.

Students should complete the following prerequisite courses 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 in prerequisite courses.

- BSC X010 & BSC X010L Biology I & Lab or BSC X010C
- BSC X011 & BSC X011L Biology II & Lab or BSC X011C
- CHM X045 & CHM X045L General Chemistry I & Lab or CHM X045C
- CHM X046 & CHM X046L General Chemistry II & Lab or CHM X046C
- CHM X210 & CHM X210L Organic Chemistry I & Lab or CHM X210C
- CHM X211 & CHM X211L Organic Chemistry II & Lab or CHM X211C
- PHY X053 & PHY X053L General Physics I & Lab and PHY X054 & PHY X054L General Physics II & Lab
  OR
  o PHY X053C and PHY X054C OR
  o PHY X048 & PHY X048L General Physics I & Lab and PHY X049 & PHY X049L General Physics II & Lab OR
  o BSC X093C Human Anatomy & Physiology I and BSC X094C Human Anatomy & Physiology II OR
  o BSC X093 & BSC X093L and BSC X094 & BSC X094L
- MAC X241 Life Sciences Calculus or MAC X281 or MAC X311
- MAC X242 Life Sciences Calculus II or MAC X282 or MAC X312 or STA X023 or STA X024
REQUIREMENTS FOR THE MAJOR IN BIOMEDICAL SCIENCES

TOTAL MAJOR HOURS: 61-62

MAJOR REQUIREMENTS FOR THE B.S. DEGREE:

MAJOR CORE (40 HOURS)

Tier 1

Required Biology Courses (8 credit hours):
- BSC 2010 Cellular Processes
- BSC 2010L Cellular Processes Laboratory
- BSC 2011 Biodiversity
- BSC 2011L Biodiversity Laboratory

Required Chemistry Courses (18 credit hours):
- CHM 2045 General Chemistry I
- CHM 2045L General Chemistry I Laboratory
- CHM 2046 General Chemistry II
- CHM 2046L General Chemistry II Laboratory
- CHM 2210 Organic Chemistry I
- CHM 2210L Organic Chemistry I Laboratory
- CHM 2211 Organic Chemistry II
- CHM 2211L Organic Chemistry II Laboratory

Required Mathematics Courses (6 credit hours):
- MAC 2241 Life Sciences Calculus I
  - MAC 2311 and MAC 2281 are also acceptable for the major.
- MAC 2242 Life Sciences Calculus II or STA 2023 Introductory Statistics I
  - MAC 2312 and MAC 2282 are also acceptable for the major.

Required Physics Courses (8 credit hours):
- PHY 2053 General Physics I
- PHY 2053L General Physics I Laboratory
- PHY 2054 General Physics II
- PHY 2054L General Physics II Laboratory
  - PHY 2048, PHY 2048L General Physics I and Lab and PHY 2049, PHY 2049L General Physics II and Lab are also acceptable for the major.
  - PHY 2060 may substitute for PHY 2048 and PHY 2061 may substitute for PHY 2049.
  - Students may substitute Human Anatomy or Physiology I and II (BSC 2093C & BSC 2094C or BSC 2085, BSC 2085L & BSC 2086, BSC 2086L) for Physics I & II.
Tier 2

Required Biomedical Electives: Total 7-8 credit hours of required courses:

- BCH 3053 General Biochemistry
- MCB 3020 and MCB 3020L General Microbiology and Laboratory
  - or chose one lecture: PCB 3063 or PCB 3023 and one lab: PCB 3063L, PCB 3023L or BCH 3023L

Minimum of 14 credits from the following to include:

- Upper-level Biology course (3 hour minimum lecture course)
- Upper-level Chemistry course (3 hour minimum lecture course)
- Upper-level Chemistry or Biology course (3 hour minimum lecture course)
- Upper-level Chemistry or Biology Lab (1 hour minimum)
- Upper-level Additional Biomedical electives (4 hours minimum)

Biology Courses:

- BOT 3850 Medical Botany
- MCB 4115 Determinative Bacteriology
- MCB 4115L Determinative Bacteriology Lab
- MCB 4404 Microbial Physiology and Genetics
- MCB 4404L Microbial Physiology and Genetics Laboratory
- MCB 4503 Virology
- MCB 3410 Cell Metabolism
- PCB 3023 Cell Biology
- PCB 3023L Cell Biology Laboratory
- PCB 3063 General Genetics
- PCB 3063L Genetics Laboratory
- PCB 3712 General Physiology
- PCB 3713L General Physiology Laboratory
- PCB 4109 Cancer Biology
- PCB 4234 Principles of Immunology**
- PCB 4522C Experimental Genetics and Cell Biology
- PCB 4723 Animal Physiology
- PCB 4723L Animal Physiology Laboratory
- PCB 4744 Biomedical Physiology
- PCB 4843 Principles of Neuroscience
- ZOO 3713C Comparative Vertebrate Anatomy
- ZOO 4753 Human Histology & Molecular Pathology of Disease
- ZOO 4753L Human Histology & Molecular Pathology of Disease Lab
Chemistry Courses:

- BCH 3023L Basic Biochemistry Laboratory*
- BCH 4033 Advanced Biochemistry I
- BCH 4034 Advanced Biochemistry II
- CHM 3120C Elementary Analytical Chemistry
- CHM 3415C Physical Chemistry Methods
- CHM 3610 Intermediate Inorganic Chemistry
- CHM 3610L Intermediate Inorganic Chemistry Laboratory
- CHM 3941 Peer Leading in Chemistry
- CHM 4410 Physical Chemistry I
- CHM 4410L Physical Chemistry Laboratory
- CHM 4411 Physical Chemistry II
- CHM 4413 Biophysical Chemistry
- CHM 4300 Biomolecules I
- CHM 4230 Spectroscopic Analysis of Organic Compounds
- CHM 4274 Introduction to Drug Discovery
- CHM 4292 Introduction to Medicinal Chemistry
- CHM 4307 BioOrganic Chemistry
- CHM 4455 Chemistry of High Polymers
- CHM 4932 Selected Topics in Chemistry**
- CHS 4300 Fundamentals of Clinical Chemistry
- CHS 4301L Clinical Laboratory

*BCH 3023L Satisfies Lab or Additional Biomedical Elective Only

**Contact Advisor for approval of CHM 4932 Courses

Other Courses:

- CHM 4060 Use of Chemical Literature
- HSC 4504 Foundations of Public Health Immunology**
- PHZ 4702 Applications of Physics to Biology & Medicine I
- PHZ 4703 Applications of Physics to Biology & Medicine II

**Students may not use both HSC 4504 and PCB 4234 to meet Tier 2 required Biomedical Electives requirements.

General Electives. Courses over and above the required courses should be taken to complete a 120 hour program. Additional courses in computer programming, economics, management, engineering, statistics, writing, and other applied disciplines are strongly recommended to strengthen the degree for subsequent professional employment.

Transfer Credit: It is strongly recommended that students transferring from community/state colleges to the University of South Florida complete whole sequences of chemistry courses, such as general and organic chemistry, before they transfer. Even though courses may carry the same common course number, topics covered may vary significantly from school to school.

D/F Policy: The following three departments, the Department of Chemistry, the Department of Cell Biology, Microbiology and Molecular Biology and the Department of Integrative Biology have instituted a procedure to provide students with the best opportunity to progress toward their degree requirements.
Effective Fall 2018, all students in the below listed programs must successfully complete the below science and math coursework without earning D and/or F grades. Students unable to successfully complete these courses within these prescribed parameters will be required to select a different major and will not be permitted to take any additional courses offered by the below Departments/Divisions. In addition, registration for all courses offered by these departments will be dependent on students meeting the prescribed parameters regardless of their major.

Furthermore, any student who requests a change of major to one offered in the below identified departments will be required to meet these prescribed parameters as well as those criteria outlined in the Degree Progression Policy 10-505. Any continuing student who was previously forced to select a different major based on previous versions of this policy may now be eligible to pursue the majors listed below, but only if they meet both the criteria described here as well as the Degree Progression Policy 10-505 criteria. Students who are able to complete one of the below majors by earning fewer credit hours than required to complete any other major offered at USF may petition to request an exception and should contact the School of Natural Sciences and Mathematics Advising Office for instructions. Grade Forgiveness will NOT apply to the mandated requirement of changing majors.

Included Departments/Divisions:
Division of Health Professions Advising; Department of Chemistry; Department of Cell Biology, Microbiology and Molecular Biology; and Department of Integrative Biology.

Included courses:
BCH 3053 BSC 2010; BSC 2011; BSC 2085; BSC 2086; BSC 2093C; BSC 2094C; BSC 2932; CHM 2023; CHM 2045; CHM 2046; CHM 2210; CHM 2211; CHS 2440; MAC 1033; MAC 1105; MAC 1147; MAC 2241; MAC 2242; MAC 2281; MAC 2282; MAC 2311; MAC 2312; MCB 3020; PCB 3023; PCB 3063; PHY 2053; PHY 2054; PHY 2048; PHY 2049; PHY 2060; PHY 2061; STA 2023.

GRADING REQUIREMENT
A grade of C or better is required for science and mathematics courses and each supporting course for the Major. All courses in any chemistry major must be taken with letter grade (A, B, C, D, F, I) except those courses which are graded S/U only.

RESIDENCY REQUIREMENT
Chemistry residency requirement: Seven (7) credits of Chemistry coursework, upper or lower level, must be completed at USF.

Upper-level residency requirement: 12 credit hours of major-applicable, upper-level natural science courses must be completed at USF.

OTHER REQUIREMENTS
No duplicate credit allowed.

RESEARCH OPPORTUNITIES
The Department of Chemistry offers the opportunity for students to participate in undergraduate research with Chemistry faculty. Students can apply for the Academic Research Experience for Undergraduates (REU) Program and find more information here: [http://chemistry.usf.edu/undergraduate/reu/](http://chemistry.usf.edu/undergraduate/reu/). Students who wish to enroll in an undergraduate research course with a Chemistry faculty member should consult with their academic advisor to understand how the credit will apply towards the degree requirements. If no credit is needed, students may be eligible to enroll in a 0 credit research course. These courses will not impact degree credits or GPA but will show on an official transcript and document the experience. The Academic Advisors in the Department of Chemistry, as well as the [Office for Undergraduate Research](http://chemistry.usf.edu/undergraduate/reu/), can assist students in understanding the various course options.
ACCELERATED B.S./M.A.T. PROGRAM

Accelerated B.S. in Biomedical Sciences and M.A.T. in Science Education

This program intends for students to complete a B.S. in Biomedical Sciences (College of Arts and Sciences) and M.A.T. in Science Education (College of Education) over the span of five years. Students completing this program will be eligible for high school and/or middle school science teacher certification. Completion of this program requires students to complete 12 credit hours toward the M.A.T. in Science Education during their senior year in the Biomedical Sciences major.

ADVISING INFORMATION

Department of Chemistry Advising: chemadvise@usf.edu or http://chemistry.usf.edu/advising/.

BIOMEDICAL SCIENCES FACULTY


B.S. - CELL AND MOLECULAR BIOLOGY (CAM)

(CIP = 26.0101 - TRACK 1 OF 2)

TOTAL DEGREE HOURS: 120

http://biology.usf.edu/cmmb/

This degree provides a strong foundation in general biology, with an emphasis on biomedical related areas, but focuses on the cellular and molecular processes that occur within cells. Many of the breakthroughs in the field of biology over the past several decades have shed light on how cells function in the context of the whole organism. The fields of genomics and computational biology have begun to solve the mystery of how networks of genes are regulated and how cells interact with each other and how complex organisms react to their environment. Advances in cell and molecular biology continually lead to new treatments for age-related diseases such as cancer and Alzheimer’s. This degree prepares students for application to medical school, dental school, graduate school and careers in biotechnology, science policy, biomedical research, teaching, science writing and illustration. Many of our students continue their studies by attending graduate school in biology and other related disciplines.

STATE MANDATED COMMON COURSE PREREQUISITES

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 General Education 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.

Transfer students are also required to comply with the immunization, foreign language, and continuous enrollment policies of the university.

Students should complete the following prerequisite courses 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 in prerequisite courses.

- BSC X010/X010L Biology I with Lab or BSC X010C or BSC X040/X040L or BSC X040C
- BSC X011/X011L Biology II with Lab or BSC X011C or BSC X041/X041L or ZOO X010/010L or BOT X010/X010L or BOT X013/X013L or BSC X041C or ZOO X010C or BOT X010C or BOT X013C
• CHM X045/X045L General Chemistry I with Lab or CHM X045C or CHM X040 and CHM X041
• CHM X046/X046L General Chemistry II with Lab or CHM X046C
• CHM X210/X210L Organic Chemistry I with Lab and CHM X211/X211L or CHM X210C and CHM X211C or (PHY X053 and PHY X053L or PHY X048L and PHY X054 and PHY X054L or PHY X049L) or (PHY X048/X048L and PHY X049/X049L)
• MAC X311 Calculus I or MAC X233 or MAC X253 or MAC X281 or MAC X241
• MAC X312 Calculus II or MAC X282 or MAC X234 or STA X023 or STA X024 or STA X321

REQUIREMENTS FOR THE MAJOR IN CELL AND MOLECULAR BIOLOGY

REQUIRED SUPPORTING COURSES FOR THE MAJOR: 32-34 HOURS

The following courses are prerequisite and supporting courses for this major. They are required for the major, but are not counted in the total hours for this major. The degree will not be awarded if these courses have not been taken by the end of the student's final semester.

• CHM 2045 General Chemistry I
• CHM 2045L General Chemistry I Laboratory
• CHM 2046 General Chemistry II
• CHM 2046L General Chemistry II Laboratory
• CHM 2210 Organic Chemistry I
• CHM 2210L Organic Chemistry I Laboratory
• CHM 2211 Organic Chemistry II
• CHM 2211L Organic Chemistry II Laboratory
• MAC 2241 Life Sciences Calculus I and MAC 2242 Life Sciences Calculus II
  o or MAC 2281 Engineering Calculus I and MAC 2282 Engineering Calculus II
  o or MAC 2311 Calculus I and MAC 2312 Calculus II
    ▪ STA 2023 Introductory Statistics I may be substituted for any Calculus II
• PHY 2048/2048L General Physics I and PHY 2049/2049L General Physics II
  o or PHY 2053/2053L General Physics I and PHY 2054/2054L General Physics II
  o PHY 2060 may substitute for PHY 2048 and PHY 2061 may substitute for PHY 2049.

TOTAL MAJOR HOURS: 40

MAJOR REQUIREMENTS FOR THE B.S. DEGREE:

MAJOR CORE (25 HOURS)

Minimum 40 credit hours.

• BSC 2010 Cellular Processes
• BSC 2010L Cellular Processes Laboratory
• BSC 2011 Biodiversity
• BSC 2011L Biodiversity Laboratory
• MCB 3410 Cell Metabolism
• PCB 3063 General Genetics
• PCB 3023 Cell Biology
• PCB 3023L Cell Biology Laboratory and PCB 3063L General Genetics Laboratory
• Choose two of the following courses:
  o PCB 4024 Molecular Biology of Cell
  o PCB 4026 Molecular Biology of Gene
  o PCB 4109 Cancer Biology

MAJOR ELECTIVES (15 HOURS)

Students choose a minimum of 15 credit hours from the following list of courses:

• BCH 3053 General Biochemistry
• BOT 4434C Mycology
• BSC 4434 Bioinformatics
• BSC 4905 Independent Study (1 credit maximum)
• BSC 4910 Undergraduate Research (1 or 2 credit hours/semester, no more than 4 credits total)
• BSC 4933 Selected Topics in Biology*
• BSC 5425 Genetic Engineering and Recombinant DNA Technology
• BSC 5931 Selected Topics in Biology (for the accelerated program only)
• MCB 3020 General Microbiology
• MCB 3020L General Microbiology Lab
• MCB 4503 Virology
• PCB 3043 Principles of Ecology
• PCB 3043L Principles of Ecology Laboratory
• PCB 3712 General Physiology
• PCB 3713L General Physiology Lab
• PCB 4024 Molecular Biology of Cell (if not used as a core course)
• PCB 4026 Molecular Biology of Gene (if not used as a core course)
• PCB 4109 Cancer Biology (if not used as a core course)
• PCB 4234 Principles of Immunology
• PCB 4522C Experimental Genetics and Cell Biology
• PCB 4663 Human Genetics
• PCB 4671 Molecular Evolution
• PCB 4744 Biomedical Physiology
• PCB 4843 Principles of Neuroscience
• ZOO 4753 Human Histology and Molecular Pathology of Disease
• ZOO 4694 Developmental Biology

*Selected topics approved for the major by the Department of Cell Biology, Microbiology and Molecular Biology
Effective Fall 2018, all students in the below listed programs must successfully complete the below science and math coursework without earning 3 D and/or F grades. Students unable to successfully complete these courses within these prescribed parameters will be required to select a different major and will not be permitted to take any additional courses offered by the below Departments/Divisions. In addition, registration for all courses offered by these departments will be dependent on students meeting the prescribed parameters regardless of their major.

Furthermore, any student who requests a change of major to one offered in the below identified departments will be required to meet these prescribed parameters as well as those criteria outlined in the Degree Progression Policy 10-505. Any continuing student who was previously forced to select a different major based on previous versions of this policy may now be eligible to pursue the majors listed below, but only if they meet both the criteria described here as well as the Degree Progression Policy 10-505 criteria. Students who are able to complete one of the below majors by earning fewer credit hours than required to complete any other major offered at USF may petition to request an exception and should contact the School of Natural Sciences and Mathematics Advising Office for instructions. Grade Forgiveness will NOT apply to the mandated requirement of changing majors.

Included Departments/Divisions:
Division of Health Professions Advising; Department of Chemistry; Department of Cell Biology, Microbiology and Molecular Biology; and Department of Integrative Biology.

Included courses:
BCH 3053; BSC 2010; BSC 2011; BSC 2085; BSC 2086; BSC 2093C; BSC 2094C; BSC 2932; CHM 2023; CHM 2045; CHM 2046; CHM 2210; CHM 2211; CHS 2440; MAT 1033; MAC 1105; MAC 1147; MAC 2241; MAC 2242; MAC 2281; MAC 2282; MAC 2311; MAC 2312; MCB 3020; PCB 3023; PCB 3063; PHY 2053; PHY 2054; PHY 2048; PHY 2049; PHY 2060; PHY 2061; STA 2023.

COURSE GRADE REQUIREMENT
Please note that some supporting science courses may require a grade of C (2.0) or better in order to meet the prerequisite requirements for course sequences.

GRADING REQUIREMENT
A student must receive a C- grade or better in all Department of Cell Biology, Microbiology, and Molecular Biology courses and supporting courses in the natural sciences, except if they are used as general elective courses. This specification applies to both USF and transfer courses.

RESIDENCY REQUIREMENT
A minimum of 20 credits hours of courses must be taken in residency and be applicable to the major.

Once a student has matriculated to USF Tampa, he/she is expected to take 100 percent of the required major coursework at USF Tampa.

RESEARCH OPPORTUNITIES
A maximum of 2 credit hours of Undergraduate Research (BSC 4910) may be taken in a single semester, and a maximum of 4 credit hours of Undergraduate Research may be applied as electives.

ACCELERATED NON-THESIS B.S./M.S. PROGRAM
Accelerated B.S. in Cell and Molecular Biology and M.S. in Biology with a concentration in Cell and Molecular Biology (Non-Thesis)
This program allows Cell and Molecular Biology majors to take graduate courses for the elective part of the major and apply them to a non-thesis M.S. degree in Biology with a concentration in Cell and Molecular Biology. Successful students will be able to earn the M.S. degree in two additional semesters beyond the completion of the B.S. degree.

ADVISING INFORMATION
Bioadvise: Science Center (SCA) 203; (813) 974-3250
http://biology.usf.edu/bioadvise/
Email: bioadvise@usf.edu
CELL AND MOLECULAR BIOLOGY FACULTY


B.A. - CHEMISTRY (CHM)

(CIP = 40.0501 - TRACK 1 OF 3)
TOTAL DEGREE HOURS: 120

http://chemistry.usf.edu/undergraduate/majors/ba/

The Chemistry B.A. gives students exposure to analytical, inorganic, organic and physical chemistry while providing the flexibility to take additional elective courses. Students interested in professional, law, or graduate school or those who anticipate working in careers related to secondary education or business will find this degree attractive. The B.A. student whose goals include graduate study should supplement this curriculum by addition and/or substitution of a selection of advanced courses from the B.S. program. The Bachelor of Arts in Chemistry provides opportunities for curricula individually tailored to meet many career objectives.

STATE MANDATED COMMON COURSE PREREQUISITES

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 General Education 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.

Transfer students are also required to comply with the immunization, foreign language, and continuous enrollment policies of the university.

Students should complete the following prerequisite courses 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 in prerequisite courses.

- CHM X045/CHM X045L General Chemistry I (with lab) or CHM X040 and CHM X041 or CHM X045C
- CHM X046/CHM X046L General Chemistry II or CHM X046C
- MAC X311 Calculus I or MAC X281 Engineering Calculus I
- MAC X312 Calculus II or MAC X282 Engineering Calculus II
- CHM X210/CHM X210L Organic Chemistry I & Laboratory and CHM X211/X211L or CHM X210C and CHM X211C
- PHY X048/PHY X048L Gen Physics I & Laboratory and PHY X049/PHY X049L Gen Physics II & Laboratory or PHY X048C and PHY X049C or PHY X053/X053L and PHY X054/X054L or PHY X053C and PHY X054C

REQUIREMENTS FOR THE MAJOR IN CHEMISTRY

REQUIRED SUPPORTING COURSES FOR THE MAJOR: 24 HOURS

The following courses are prerequisite and supporting courses for this major. They are required for the major, but are not counted in the total hours for this major. The degree will not be awarded if these courses have not been taken by the end of the student’s final semester.

- MAC 2311 Calculus I and MAC 2312 Calculus II
  - *MAC 2281 Engineering Calculus I and MAC 2282 Engineering Calculus II are also accepted for this major
• PHY 2053 General Physics I and PHY 2053L General Physics I Laboratory and PHY 2054 General Physics II and PHY 2054L General Physics II Laboratory or PHY 2048 General Physics I-Calculus Based and PHY 2048L General Physics I-Calculus Based Laboratory and PHY 2049 General Physics II-Calculus Based and PHY 2049L General Physics II-Calculus Based Laboratory
  o PHY 2060 may substitute for PHY 2048 and PHY 2061 may substitute for PHY 2049.

Students must choose eight (8) hours of required natural science or engineering electives from the following suggested list of courses:

• BSC 2010 Cellular Processes and BSC 2010L Cellular Processes Laboratory
• BSC 2011 Biodiversity and BSC 2011L Biodiversity Laboratory
• GLY 2010 Dynamic Earth: Introduction to Physical Geology and GLY 2000L Essentials of Geology Laboratory
• GLY 2100 History of Life and GLY 2100L History of Life Laboratory
• EVR 2001 Introduction to Environmental Science and EVR 2001L Environmental Science Laboratory
• CGS 2060 Introduction to Computers and Computer Programming
• STA 2023 Introductory Statistics I

TOTAL MAJOR HOURS: 39

MAJOR REQUIREMENTS FOR THE B.A. DEGREE:

MAJOR CORE (33 HOURS)

Students are required to complete 39 credits of degree applicable Chemistry coursework.

• CHM 2045 General Chemistry I
• CHM 2045L General Chemistry I Laboratory
• CHM 2046 General Chemistry II
• CHM 2046L General Chemistry II Laboratory
• CHM 2210 Organic Chemistry I
• CHM 2210L Organic Chemistry I Laboratory
• CHM 2211 Organic Chemistry II
• CHM 2211L Organic Chemistry II Laboratory
• CHM 3120C Elementary Analytical Chemistry
• CHM 3610 Intermediate Inorganic Chemistry
• CHM 3610L Intermediate Inorganic Chemistry Laboratory
• CHM 4410 Physical Chemistry I
• CHM 4413 Biophysical Chemistry

MAJOR ELECTIVES (6 HOURS)

Students must choose six (6) credit hours of coursework at 3000-level or above; may not include more than 1 hour of CHM 4970.

• BCH 3023L Basic Biochemistry Laboratory
• BCH 4033 Advanced Biochemistry I
• BCH 4034 Advanced Biochemistry II
• CHM 3415C Physical Chemistry Methods
• CHM 4060 Use of Chemical Literature
• CHM 4070 Historical Perspectives in Chemistry
• CHM 4130C Methods of Instrument Analysis
• CHM 4131C Methods of Chemical Investigation II
• CHM 4230 Spectroscopic Analysis of Organic Compounds
• CHM 4274 Introduction to Drug Discovery
• CHM 4292 Introduction to Medicinal Chemistry
• CHM 4300 Biomolecules I
• CHM 4307 BioOrganic Chemistry
• CHM 4410L Physical Chemistry Laboratory
• CHM 4411 Physical Chemistry II
• CHM 4455 Chemistry of High Polymers
• CHM 4611 Advanced Inorganic Chemistry
• CHM 4932 Selected Topics in Chemistry*
• CHM 4970 Undergraduate Research
• CHS 4300 Fundamentals of Clinical Chemistry
• CHS 4301L Clinical Laboratory

*Contact Advisor for approval of CHM 4932 Courses

General Electives. Courses over and above the required courses should be taken to complete a 120 hour program. Additional courses in computer programming, economics, management, engineering, statistics, writing, and other applied disciplines are strongly recommended to strengthen the degree for subsequent professional employment.

Transfer Credit: It is strongly recommended that students transferring from community/state colleges to the University of South Florida complete whole sequences of chemistry courses, such as general and organic chemistry, before they transfer. Even though courses may carry the same common course number, topics covered may vary significantly from school to school.

D/F Policy: The following three departments, the Department of Chemistry, the Department of Cell Biology, Microbiology and Molecular Biology and the Department of Integrative Biology have instituted a procedure to provide students with the best opportunity to progress toward their degree requirements.

Effective Fall 2018, all students in the below listed programs must successfully complete the below science and math coursework without earning 3 D and/or F grades. Students unable to successfully complete these courses within these prescribed parameters will be required to select a different major and will not be permitted to take any additional courses offered by the below Departments/Divisions. In addition, registration for all courses offered by these departments will be dependent on students meeting the prescribed parameters regardless of their major.

Furthermore, any student who requests a change of major to one offered in the below identified departments will be required to meet these prescribed parameters as well as those criteria outlined in the Degree Progression Policy 10-505. Any continuing student who was previously forced to select a different major based on previous versions of this policy may now be eligible to pursue the majors listed below, but only if they meet both the criteria described here as well as the Degree Progression Policy 10-505 criteria. Students who are able to complete one of the below majors by earning fewer credit hours than required to complete any other major offered at USF may petition to request an exception and should contact the School of Natural Sciences and Mathematics Advising Office for instructions. Grade Forgiveness will NOT apply to the mandated requirement of changing majors.

Included Departments/Divisions:

Division of Health Professions Advising; Department of Chemistry; Department of Cell Biology, Microbiology and Molecular Biology; and Department of Integrative Biology.
Included courses:

BCH 3053 BSC 2010; BSC 2011; BSC 2085; BSC 2086; BSC 2093C; BSC 2094C; BSC 2932; CHM 2023; CHM 2045; CHM 2046; CHM 2210; CHM 2211; CHS 2440; MAT 1033; MAC 1105; MAC 1147; MAC 2241; MAC 2242; MAC 2281; MAC 2282; MAC 2311; MAC 2312; MCB 3020; PCB 3023; PCB 3063; PHY 2053; PHY 2054; PHY 2048; PHY 2049; PHY 2060; PHY 2061; STA 2023.

GRADING REQUIREMENT

A grade of C or better is required for science and mathematics courses and each supporting course for the Major. All courses in any chemistry major must be taken with letter grade (A, B, C, D, F, I) except those courses which are graded S/U only.

RESIDENCY REQUIREMENT

Nine (9) 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.

RESEARCH OPPORTUNITIES

The Department of Chemistry offers the opportunity for students to participate in undergraduate research with Chemistry faculty. Students can apply for the Academic Research Experience for Undergraduates (REU) Program and find more information here: [http://chemistry.usf.edu/undergraduate/reu/](http://chemistry.usf.edu/undergraduate/reu/). Students who wish to enroll in an undergraduate research course with a Chemistry faculty member should consult with their academic advisor to understand how the credit will apply towards the degree requirements. If no credit is needed, students may be eligible to enroll in a 0 credit research course. These courses will not impact degree credits or GPA but will show on an official transcript and document the experience. The Academic Advisors in the Department of Chemistry, as well as the Office for Undergraduate Research, can assist students in understanding the various course options.

ACCELERATED B.A./M.A.T. PROGRAM

Accelerated B.A. in Chemistry and M.A.T. in Science Education

This program intends for students to complete a B.A. in Chemistry (College of Arts and Sciences) and M.A.T. in Science Education (College of Education) over the span of five years. Students completing this program will be eligible for high school and/or middle school science teacher certification. Completion of this program requires students to complete 12 credit hours toward the M.A.T. in Science Education during their senior year in the Chemistry (B.A.) major.

ADVISING INFORMATION

Department of Chemistry Advising: [chemadvise@usf.edu](mailto:chemadvise@usf.edu) or [http://chemistry.usf.edu/advising/](http://chemistry.usf.edu/advising/).

CHEMISTRY FACULTY

BIOCHEMISTRY/BIOTECHNOLOGY (CBY) CONCENTRATION

(CIP = 40.0501)
TOTAL DEGREE HOURS: 120

The Biochemistry/Biotechnology concentration offers a unique opportunity for students to pursue later studies and/or professional emphasis in Biochemistry and Biotechnology along with a strong foundation in the chemical knowledge and skills that are essential to these areas.

STATE MANDATED COMMON COURSE PREREQUISITES

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 General Education 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.

Transfer students are also required to comply with the immunization, foreign language, and continuous enrollment policies of the university.

Students should complete the following prerequisite courses 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 in prerequisite courses.

- CHM X045/CHM X045L General Chemistry I (with lab) or CHM X040 and CHM X041 or CHM X045C
- CHM X046/CHM X046L General Chemistry II or CHM X046C
- MAC X311 Calculus I or MAC X281 Engineering Calculus I
- MAC X312 Calculus II or MAC X282 Engineering Calculus II
- CHM X210/CHM X210L Organic Chemistry I & Laboratory and CHM X211/X211L or CHM X210C and CHM X211C
- PHY X048/PHY X048L Gen Physics I & Laboratory and PHY X049/PHY X049L Gen Physics II & Laboratory or PHY X048C and PHY X049C or PHY X053/X053L and PHY X054/X054L or PHY X053C and PHY X054C

REQUIREMENTS FOR THE CONCENTRATION IN BIOCHEMISTRY/BIOTECHNOLOGY

REQUIRED SUPPORTING COURSES FOR THE MAJOR: 24 HOURS

The following courses are prerequisite and supporting courses for this major. They are required for the major, but are not counted in the total hours for this major. The degree will not be awarded if these courses have not been taken by the end of the student’s final semester.

- BSC 2010 Cellular Processes
- BSC 2010L Cellular Processes Laboratory
- PCB 3023 Cell Biology
- PCB 3023L Cell Biology Laboratory
- MAC 2311 Calculus 1 and MAC 2312 Calculus II
  - MAC 2281 Engineering Calculus I and MAC 2282 Engineering Calculus II are also accepted for this major
COLLEGE OF ARTS & SCIENCES

UNIVERSITY OF SOUTH FLORIDA 2019-20 UNDERGRADUATE CATALOG

- PHY 2053 General Physics I and PHY 2053L General Physics I Laboratory and PHY 2054 General Physics II and PHY 2054L General Physics II Laboratory or PHY 2048 General Physics I-Calculus Based and PHY 2048L General Physics I-Calculus Based Laboratory and PHY 2049 General Physics II-Calculus Based and PHY 2049L General Physics II-Calculus Based Laboratory
  - PHY 2060 may substitute for PHY 2048 and PHY 2061 may substitute for PHY 2049.

TOTAL MAJOR HOURS: 39

MAJOR REQUIREMENTS FOR THE B.A. DEGREE:

MAJOR CORE (30 HOURS)

Students are required to complete 39 credits of degree applicable Chemistry coursework.

- CHM 2045 General Chemistry I
- CHM 2045L General Chemistry I Lab
- CHM 2046 General Chemistry II
- CHM 2046L General Chemistry II Lab
- CHM 2210 Organic Chemistry I
- CHM 2210L Organic Chemistry I Lab
- CHM 2211 Organic Chemistry II
- CHM 2211L Organic Chemistry II Lab
- CHM 3120C Elementary Analytical Chemistry I
- BCH 4033 Advanced Biochemistry I
- BCH 3023L Basic Biochemistry Laboratory
- BCH 4034 Advanced Biochemistry II

MAJOR ELECTIVES (9 HOURS)

Minimum of 9 hours selected from the following:

- CHM 3415C Physical Chemistry Methods
- CHM 3610 Intermediate Inorganic Chemistry
- CHM 3610L Intermediate Inorganic Chemistry Lab
- CHM 4060 Use of Chemical Literature
- CHM 4300 Biomolecules I
- CHM 4070 Historical Perspectives in Chemistry
- CHM 4230 Spectroscopic Analysis of Organic Compounds
- CHM 4274 Introduction to Drug Discovery
- CHM 4292 Introduction to Medicinal Chemistry
- CHM 4307 BioOrganic Chemistry
- CHM 4455 Chemistry of High Polymers
- CHM 4410 Physical Chemistry
• CHM 4410L Physical Chemistry Lab
• CHM 4411 Physical Chemistry II
• CHM 4413 Biophysical Chemistry
• CHM 4932 Selected Topics in Chemistry*

*Contact Advisor for approval of CHM 4932 Courses

General Electives. Courses over and above the required courses should be taken to complete a 120 hour program. Additional courses in computer programming, economics, management, engineering, statistics, writing, and other applied disciplines are strongly recommended to strengthen the degree for subsequent professional employment.

Transfer Credit: It is strongly recommended that students transferring from community/state colleges to the University of South Florida complete whole sequences of chemistry courses, such as general and organic chemistry, before they transfer. Even though courses may carry the same common course number, topics covered may vary significantly from school to school.

D/F Policy: The following three departments, the Department of Chemistry, the Department of Cell Biology, Microbiology and Molecular Biology and the Department of Integrative Biology have instituted a procedure to provide students with the best opportunity to progress toward their degree requirements.

Effective Fall 2018, all students in the below listed programs must successfully complete the below science and math coursework without earning 3 D and/or F grades. Students unable to successfully complete these courses within these prescribed parameters will be required to select a different major and will not be permitted to take any additional courses offered by the below Departments/Divisions. In addition, registration for all courses offered by these departments will be dependent on students meeting the prescribed parameters regardless of their major.

Furthermore, any student who requests a change of major to one offered in the below identified departments will be required to meet these prescribed parameters as well as those criteria outlined in the Degree Progression Policy 10-505. Any continuing student who was previously forced to select a different major based on previous versions of this policy may now be eligible to pursue the majors listed below, but only if they meet both the criteria described here as well as the Degree Progression Policy 10-505 criteria. Students who are able to complete one of the below majors by earning fewer credit hours than required to complete any other major offered at USF may petition for an exception and should contact the School of Natural Sciences and Mathematics Advising Office for instructions. Grade Forgiveness will NOT apply to the mandated requirement of changing majors.

Included Departments/Divisions:
Division of Health Professions Advising; Department of Chemistry; Department of Cell Biology, Microbiology and Molecular Biology; and Department of Integrative Biology.

Included courses:
BCH 3053 BSC 2010; BSC 2011; BSC 2085; BSC 2086; BSC 2093C; BSC 2094C; BSC 2932; CHM 2023; CHM 2045; CHM 2046; CHM 2210; CHM 2211; CHS 2440; MAT 1033; MAC 1105; MAC 1147; MAC 2241; MAC 2242; MAC 2281; MAC 2282; MAC 2311; MAC 2312; MCB 3020; PCB 3023; PCB 3063; PHY 2053; PHY 2054; PHY 2048; PHY 2049; PHY 2060; PHY 2061; STA 2023.

GRADING REQUIREMENT
A grade of C or better is required for science and mathematics courses and each supporting course for the Major. All courses in any chemistry major must be taken with letter grade (A, B, C, D, F, I) except those courses which are graded S/U only.

RESIDENCY REQUIREMENT
Nine (9) 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.
OTHER REQUIREMENTS

Other suggested electives important for advanced studies in Biochemistry:

- EVR 2001 Introduction to Environmental Science
- MCB 3020 General Microbiology
- MCB 3020L General Microbiology Laboratory
- PCB 3063 General Genetics
- STA 2023 Introductory Statistics I

ADVISING INFORMATION

Department of Chemistry Advising: chemadvise@usf.edu or http://chemistry.usf.edu/advising/.

CHEMISTRY FACULTY


HEALTH PROFESSIONS (CHH) CONCENTRATION

(CIP = 40.0501)

TOTAL DEGREE HOURS: 120

A chemistry core is essential for preparation for medical, dental, veterinarian and other health-related professions. The Health Professions option for the B.A. in Chemistry includes this core as well as the flexibility to incorporate the other science courses required for admission to programs in the health professions.

STATE MANDATED COMMON COURSE PREREQUISITES

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 General Education 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.

Transfer students are also required to comply with the immunization, foreign language, and continuous enrollment policies of the university.

Students should complete the following prerequisite courses 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 in prerequisite courses.

- CHM X045/CHM X045L General Chemistry I (with laboratory) or CHM 1040 and 1041, or 1045C
- CHM X046/CHM X046L General Chemistry II or CHM 1046C
- MAC 2311 Calculus I or MAC 2281 Engineering Calculus I
- MAC 2312 Calculus II or MAC 2282 Engineering Calculus II
- CHM 2210/CHM 2210L Organic Chemistry I & Laboratory or CHM 2210C
REQUIREMENTS FOR THE CONCENTRATION IN HEALTH PROFESSIONS

REQUIRED SUPPORTING COURSES FOR THE MAJOR: 24 HOURS

The following courses are prerequisite and supporting courses for this major. They are required for the major, but are not counted in the total hours for this major. The degree will not be awarded if these courses have not been taken by the end of the student’s final semester.

- BSC 2010 Cellular Processes
- BSC 2010L Cellular Processes Laboratory
- PCB 3023 Cell Biology
- PCB 3023L Cell Biology Laboratory
- MAC 2311 Calculus I and MAC 2312 Calculus II
  - MAC 2281 Engineering Calculus I and MAC 2282 Engineering Calculus II are also accepted for this major
- PHY 2053 General Physics I and PHY 2053L General Physics I Laboratory and PHY 2054 General Physics II and PHY 2054L General Physics II Laboratory or PHY 2048 General Physics I-Calculus Based and PHY 2048L General Physics I-Calculus Based Laboratory and PHY 2049 General Physics II-Calculus Based and PHY 2049L General Physics II-Calculus Based Laboratory

TOTAL MAJOR HOURS: 39

MAJOR REQUIREMENTS FOR THE B.A. DEGREE:

MAJOR CORE (30 HOURS)

- CHM 2045 General Chemistry I
- CHM 2045L General Chemistry I Lab
- CHM 2046 General Chemistry II
- CHM 2046L General Chemistry II Lab
- CHM 2210 Organic Chemistry I
- CHM 2210L Organic Chemistry I Lab
- CHM 2211 Organic Chemistry II
- CHM 2211L Organic Chemistry II Lab
- CHM 3120C Elementary Analytical Chemistry
- BCH 4033 Advanced Biochemistry I
- CHS 4300 Fundamentals of Clinical Chemistry
- CHS 4301L Clinical Laboratory
MAJOR ELECTIVES (9 HOURS)

Minimum of nine (9) credit hours selected from the following list:

- BCH 3023L Basic Biochemistry Lab
- BCH 4034 Advanced Biochemistry II
- CHM 3610 Intermediate Inorganic Chemistry
- CHM 3610L Intermediate Inorganic Chemistry Laboratory
- CHM 4060 Use of Chemical Literature
- CHM 4070 Historical Perspectives in Chemistry
- CHM 4130C Methods of Instrument Analysis
- CHM 4410 Physical Chemistry I
- CHM 4410L Physical Chemistry Laboratory
- CHM 4411 Physical Chemistry II
- CHM 4413 Biophysical Chemistry
- CHM 4932 Special Topics in Chemistry*

*CHM 4932 Peer Leading cannot be used as a required chemistry elective in the major.

Other suggested electives important for advanced studies in the various health profession areas:

- BSC 2011 Biodiversity
- MCB 3020 General Microbiology
- MCB 3020L General Microbiology Laboratory
- PCB 3063 General Genetics
- PCB 4723 Animal Physiology
- STA 2023 Introductory Statistics I
- ZOO 3713C Comparative Vertebrate Anatomy
- ZOO 4753 Human Histology and Molecular Pathology of Disease

General Electives. Courses over and above the required courses should be taken to complete a 120 hour program. Additional courses in computer programming, economics, management, engineering, statistics, writing, and other applied disciplines are strongly recommended to strengthen the degree for subsequent professional employment.

Transfer Credit: It is strongly recommended that students transferring from community/state colleges to the University of South Florida complete whole sequences of chemistry courses, such as general and organic chemistry, before they transfer. Even though courses may carry the same common course number, topics covered may vary significantly from school to school.

D/F Policy: The following three departments, the Department of Chemistry, the Department of Cell Biology, Microbiology and Molecular Biology and the Department of Integrative Biology have instituted a procedure to provide students with the best opportunity to progress toward their degree requirements.

Effective Fall 2009, the following D and/or F grade rules apply for students to continue in all of the following majors:

- Biomedical Sciences
- Cell and Molecular Biology
- Chemistry B.A. - including Biochemistry/Biotechnology and Health Professions concentrations
- Chemistry B.S.
- Environmental Biology
Environmental Microbiology
- Integrative Animal Biology
- Interdisciplinary Natural Sciences
- Marine Biology
- Medical Technology
- Microbiology, and
- Pre-Medical Sciences (PMS) students who have not yet declared a major

*Non-Science majors are also subject to the D/F policy

All students entering USF for the first time, in Fall 2009 or later, who subsequently earn three (3) D and/or F grades in applicable USF science and math coursework for their major (i.e. Math, Biology, Chemistry and Physics) will be required to change their major to a major more appropriate to their goals and academic performance, and to a major that is not conferred by the Department of Chemistry, Department of Integrative Biology or Department of Cell Biology, Microbiology, and Molecular Biology.

All continuing USF students who entered USF prior to Fall 2009 and who have not earned any D or F grades in USF science and math coursework for their major (i.e. Math, Biology, Chemistry and Physics) before Fall 2009, will also be redirected after earning three (3) D and/or F grades in subsequent terms. Upon earning the 3rd D and/or F grade, students will be required to choose another major more appropriate to their goals and academic performance, and to one that is not conferred by the Department of Chemistry, Department of Integrative Biology or Department of Cell Biology, Microbiology, and Molecular Biology.

All continuing USF students who entered USF prior to Fall 2009 and who have earned one(1) or more D or F grades in USF science and math coursework for the major (i.e. Math, Biology, Chemistry and Physics) prior to Fall 2009, will be allowed to count all previous D/F grades as one (1) D/F grade. After Fall 2009, students who earn two (2) additional D and/or F grades (resulting in three (3) total D/F grades) in subsequent terms will be required to choose another major more appropriate to their goals and academic performance, and to one that is not conferred by the Department of Chemistry, Department of Integrative Biology or Department of Cell Biology, Microbiology, and Molecular Biology.

Lab only courses are not counted towards the total number of D/F grades earned for the policy. Grade Forgiveness will NOT apply to the mandated requirement of changing majors.

If a student is redirected via the D/F policy, regardless of major, they will no longer be able to take any courses offered by the Department of Chemistry, Department of Integrative Biology or Department of Cell Biology, Microbiology, and Molecular Biology.

**GRADING REQUIREMENT**

A grade of C or better is required in each chemistry major course and each supporting course specified for a chemistry degree. All courses in a chemistry program must be taken with letter grade (A, B, C, D, F, I) except those courses which are graded S/U only.

**RESIDENCY REQUIREMENT**

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.

**ADVISING INFORMATION**

Department of Chemistry Advising: chemadvise@usf.edu or http://chemistry.usf.edu/advising/.
CHEMISTRY FACULTY


B.S. - CHEMISTRY (CHS)

(CIP = 40.0501 - TRACK 1 OF 2)
TOTAL DEGREE HOURS: 120

http://chemistry.usf.edu/undergraduate/majors/bs/

The Bachelor of Science in Chemistry is designed for students wishing to continue with graduate training in chemistry and closely allied disciplines and the degree is certified by the American Chemical Society. The Bachelor of Science in Chemistry provides a firm foundation in all five disciplines of chemistry: organic, physical chemistry, inorganic, analytical and biochemistry. Students interested in research, the pursuit of an advanced degree, employment in the chemical industry, or who want to teach at the secondary education level may find this degree attractive. The curriculum for the B.S. degree in Chemistry meets the requirements for degree certification by the American Chemical Society.

STATE MANDATED COMMON COURSE PREREQUISITES

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 General Education 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.

Transfer students are also required to comply with the immunization, foreign language, and continuous enrollment policies of the university.

Students should complete the following prerequisite courses 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 in prerequisite courses.

- CHM X045/CHM X045L General Chemistry I (with lab) or CHM X040 and CHM X041 or CHM X045C
- CHM X046/CHM X046L General Chemistry II or CHM X046C
- MAC X311 Calculus I or MAC X281 Engineering Calculus I
- MAC X312 Calculus II or MAC X282 Engineering Calculus II
- CHM X210/CHM X210L Organic Chemistry I & Laboratory and CHM X211/X211L or CHM X210C and CHM X211C
- PHY X048/PHY X048L Gen Physics I & Laboratory and PHY X049/PHY X049L Gen Physics II & Laboratory or PHY X048C and PHY X049C or PHY X053/X053L and PHY X054/X054L or PHY X053C and PHY X054C
REQUIREMENTS FOR THE MAJOR IN CHEMISTRY

REQUIRED SUPPORTING COURSES FOR THE MAJOR: 22 HOURS

The following courses are prerequisite and supporting courses for this major. They are required for the major, but are not counted in the total hours for this major. The degree will not be awarded if these courses have not been taken by the end of the student’s final semester.

- MAC 2311 Calculus I and MAC 2312 Calculus II or MAC 2281 Engineering Calculus I and MAC 2282 Engineering Calculus II
- PHY 2048 General Physics I-Calculus Based and PHY 2048L General Physics I-Calculus Based Laboratory and PHY 2049 General Physics II-Calculus Based and PHY 2049L General Physics II-Calculus Based Laboratory
  - PHY 2060 may substitute for PHY 2048 and PHY 2061 may substitute for PHY 2049.
- BSC 2010 Cellular Processes
- One 3000-level Natural Science or Engineering course (PHY 3101 suggested) or
- One 2000-level Natural Science course (BSC 2011, GLY 2010, GLY 2100, EVR 2001)

TOTAL MAJOR HOURS: 54

MAJOR REQUIREMENTS FOR THE B.S. DEGREE:

MAJOR CORE (54 HOURS)

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. Students are strongly encouraged to complete CHM 3415C prior to their registration in CHM 4410 and CHM 4411.

Students are required to complete 54 credits of degree applicable Chemistry coursework.

- CHM 2045 General Chemistry I
- CHM 2045L General Chemistry I Laboratory
- CHM 2046 General Chemistry II
- CHM 2046L General Chemistry II Laboratory
- CHM 2210 Organic Chemistry I
- CHM 2210L Organic Chemistry I Laboratory
- CHM 2211 Organic Chemistry II
- CHM 2211L Organic Chemistry II Laboratory
- BCH 4033 Advanced Biochemistry I
- CHM 3120C Elementary Analytical Chemistry
- CHM 3415C Physical Chemistry Methods
- CHM 3610 Intermediate Inorganic Chemistry
- CHM 3610L Intermediate Inorganic Chemistry Laboratory
- CHM 4060 Use of Chemical Literature
• CHM 4130C Methods of Instrumental Analysis
• CHM 4131C Methods of Chemical Investigation II
• CHM 4410 Physical Chemistry I
• CHM 4410L Physical Chemistry Laboratory
• CHM 4411 Physical Chemistry II
• CHM 4611 Advanced Inorganic Chemistry

General Electives. Courses over and above the required courses should be taken to complete a 120 hour program. Additional courses in computer programming, economics, management, engineering, statistics, writing, and other applied disciplines are strongly recommended to strengthen the degree for subsequent professional employment.

Transfer Credit: It is strongly recommended that students transferring from community/state colleges to the University of South Florida complete whole sequences of chemistry courses, such as general and organic chemistry, before they transfer. Even though courses may carry the same common course number, topics covered may vary significantly from school to school.

D/F Policy: The following three departments, the Department of Chemistry, the Department of Cell Biology, Microbiology and Molecular Biology and the Department of Integrative Biology have instituted a procedure to provide students with the best opportunity to progress toward their degree requirements.

Effective Fall 2018, all students in the below listed programs must successfully complete the below science and math coursework without earning 3 D and/or F grades. Students unable to successfully complete these courses within these prescribed parameters will be required to select a different major and will not be permitted to take any additional courses offered by the below Departments/Divisions. In addition, registration for all courses offered by these departments will be dependent on students meeting the prescribed parameters regardless of their major.

Furthermore, any student who requests a change of major to one offered in the below identified departments will be required to meet these prescribed parameters as well as those criteria outlined in the Degree Progression Policy 10-505. Any continuing student who was previously forced to select a different major based on previous versions of this policy may now be eligible to pursue the majors listed below, but only if they meet both the criteria described here as well as the Degree Progression Policy 10-505 criteria. Students who are able to complete one of the below majors by earning fewer credit hours than required to complete any other major offered at USF may petition to request an exception and should contact the School of Natural Sciences and Mathematics Advising Office for instructions. Grade Forgiveness will NOT apply to the mandated requirement of changing majors.

Included Departments/Divisions:
Division of Health Professions Advising; Department of Chemistry; Department of Cell Biology, Microbiology and Molecular Biology; and Department of Integrative Biology.

Included courses:
BCH 3053 BSC 2010; BSC 2011; BSC 2085; BSC 2086; BSC 2093C; BSC 2094C; BSC 2932; CHM 2023; CHM 2045; CHM 2046; CHM 2210; CHM 2211; CHS 2440; MAT 1033; MAC 1105; MAC 1147; MAC 2241; MAC 2242; MAC 2281; MAC 2282; MAC 2311; MAC 2312; MCB 3020; PCB 3023; PCB 3063; PHY 2053; PHY 2054; PHY 2048; PHY 2049; PHY 2060; PHY 2061; STA 2023.

GRADING REQUIREMENT
A grade of C or better is required for science and mathematics courses and each supporting course for the Major. All courses in any chemistry major must be taken with letter grade (A, B, C, D, F, I) except those courses which are graded S/U only.

RESIDENCY REQUIREMENT
Nine (9) 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.
RESEARCH OPPORTUNITIES

The Department of Chemistry offers the opportunity for students to participate in undergraduate research with Chemistry faculty. Students can apply for the Academic Research Experience for Undergraduates (REU) Program and find more information here: http://chemistry.usf.edu/undergraduate/reu/. Students who wish to enroll in an undergraduate research course with a Chemistry faculty member should consult with their academic advisor to understand how the credit will apply towards the degree requirements. If no credit is needed, students may be eligible to enroll in a 0 credit research course. These courses will not impact degree credits or GPA but will show on an official transcript and document the experience. The Academic Advisors in the Department of Chemistry, as well as the Office for Undergraduate Research, can assist students in understanding the various course options.

ACCELERATED B.S/M.S. PROGRAM

Accelerated B.S. in Chemistry and M.S.B.E. in Biomedical Engineering

This program intends for students to complete a B.S. in Chemistry and M.S.B.E. in Biomedical Engineering over the span of five years. Completion of this program allows students to complete nine (9) credit hours toward the M.S.B.E. during their junior or senior year in the Chemistry (B.S.) major.

ADVISING INFORMATION

Department of Chemistry Advising: chemadvise@usf.edu or http://chemistry.usf.edu/advising/.

CHEMISTRY FACULTY


B.A. - COMMUNICATION (SPE)

(CIP = 09.0101)
TOTAL DEGREE HOURS: 120
http://communication.usf.edu/undergraduate/major/

The Bachelor of Arts in Communication is a liberal arts degree that prepares students to communicate effectively and ethically in personal and professional relationships and in both face-to-face and mediated contexts. More specifically this degree prepares students to:

1. Collaborate, work, and lead in culturally-diverse teams and organizations;
2. Develop advanced communication skills and competencies in oral, written, social media, and/or other forms of communication;
3. Analyze and create messages, presentations, and persuasive communication strategies;
4. Understand, build, and strengthen personal and professional identities and relationships;
5. Study and critique culture and media including: media organizations, communication technologies, and mediated content (e.g., television, film, music, print, computer, Internet, and social media);
6. Apply communication knowledge and related skills in one or more specialized contexts (e.g., health care; media; marketing; law; politics; profits and not-for-profits; government; public advocacy; social movements; religion; world cafés; public dialogues; performance; intimate and family relationships);
7. Engage in undergraduate communication research; and
STATE MANDATED COMMON COURSE PREREQUISITES

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 General Education 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.

Transfer students are also required to comply with the immunization, foreign language, and continuous enrollment policies of the university.

Students should complete the following prerequisite courses 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 in prerequisite courses.

- SPC 2608 Public Speaking

REQUIREMENTS FOR THE MAJOR IN COMMUNICATION

TOTAL MAJOR HOURS: 39

MAJOR REQUIREMENTS FOR THE B.A. DEGREE:

MAJOR CORE (27 HOURS)

Required Core Courses (18 credit hours)

There are six required core courses including one prerequisite and one department capstone. Once enrolled in the major, students should take the first five core courses listed below as early as possible and take the department capstone course [which also fulfills the University’s FKL Capstone Experience (CPST) requirement] late in the students’ junior year or early in the students’ senior year.

- SPC 2608 Public Speaking (prerequisite for the Communication major)
- COM 2000 Introduction to Communication (students must take this course during their first semester in the major, if not taken previously)
- ORI 3004 Communication as Performance
- SPC 3301 Interpersonal Communication
- SPC 3544 Persuasion and Media
- COM 4958 Communication Senior Capstone [or other Communication course approved as a University Capstone (CPST)]

Required Distribution Area Courses (9 credit hours)

Students must take one course in each of the three distribution areas (Communication and Human Relationships, Public Communication and Media, and Applied Communication) for a total of three courses.

Communication and Human Relationships (select one course)

*Communication and Human Relationships* focuses on the role of communication in constructing, sustaining, and changing human relationships. This area includes the study of intimate relationships (family, friendships, and romantic); professional relationships (patient-health care provider); personal identity (self-awareness and personal narrative); verbal and nonverbal communication (talk, conversations, and writing); performance (performing literary and real-life relationships); and communication and cultural diversity (communicating across differences based on gender, sexuality/sexual orientation, race/ethnicity/nationality, social class, abilities, age/age cohorts, spirituality, and religion).

- COM 3014 Communication, Gender and Identity
- COM 4030 Women and Communication
• COM 4490 Communication and Love
• COM 4702 Communication, Language, and Mental Illness
• COM 4710 Writing Lives
• ORI 4150 Performing Nonfiction
• ORI 4460 Performing Relationships
• SPC 3212 Communication Theory
• SPC 3710 Communication and Cultural Diversity
• SPC 4305 Communicating Emotions
• SPC 4307 Talk in Relationships
• SPC 4310 Relationships on Film
• SPC 4321 Communication and Aging
• SPC 4431 Family Communication
• SPC 4701 Intercultural Communication

Public Communication and Media (select one course)

Public Communication and Media focuses on the critical study and analyses of communication, culture, and media in the public sphere. Specific areas include media and media texts (television, film, music, print, Internet and social media), media literacy skills; culture, social institutions, and power; public opinion and memory; political discourse, social protest and social movements; and public performances of literature and other texts. Approaches include critical and cultural studies, rhetorical studies, performance studies, diversity studies (e.g., gender, race, and class), and culture and identity studies.

• COM 3051 Analyzing Culture and Media
• COM 3052 Cultural Studies and Communication
• COM 3413 Communication and Visual Culture
• COM 4016 Public Memory
• COM 4530 Influencing Public Opinion
• COM 4414 Race and Gender in Popular Film and Television
• COM 4931 Special Topics in Media Analysis
• ORI 4019 Performing Identity and Culture
• ORI 4220 Performing Young Adult Literature
• ORI 4410 Performance Art
• ORI 4931 Performance and Video
• SPC 3230 Rhetorical Theory
• SPC 3653 Popular Forms of Public Communication
• SPC 3680 Rhetorical Analysis
• SPC 4201 Oral Tradition
• SPC 4632 Rhetoric and Social Change
• SPC 4683 Rhetorical Analysis of Mass Media
Applied Communication focuses on advanced communication skills, communication practice, and how communication practice in specialized contexts informs and is informed by communication theory and research. Advanced communication skills include leadership (working in teams and organizations); oral communication (interviewing, performing, public speaking, creating presentations); written, digital and electronic communication, and undergraduate research. The specialized contexts of "applied" communication includes for profit corporations, not-for-profit organizations, health care institutions, tourism, religious institutions, families, civic organizations and communities in both domestic and global settings.

- COM 3120 Organizational Communication
- COM 3122 Interview Communication
- COM 4104 Communication, Tourism, and Travel
- COM 4124 Communication and Organizational Change
- COM 4128 Integrated Organizational Communication
- COM 4151 Communication and Working Life in Contemporary Organizations
- COM 4020 Communicating Illness, Grief and Loss
- COM 4021 Family Communication and the End of Life
- COM 4022 Health Communication
- COM 4225 Global and Cultural Issues in Health Communication
- ORI 3950 Communication Performance Laboratory
- ORI 4120 Performance of Poetry
- ORI 4310 Group Performance of Literature
- ORI 4320 Writing for Performance
- SPC 3513 Argumentation and Debate
- SPC 3425 Group Communication
- SPC 3602 Advanced Public Speaking
- SPC 4714 Communication, Culture and Community

MAJOR ELECTIVES (12 HOURS)

Additional Departmental Electives (12 credit hours)

Students must take additional 3000- or 4000-level Communication courses to fulfill the remaining 12 hour elective requirement.

Please consult Catalog for full listing of Communication course titles, and consult Oasis for current SPC 4930 Selected Topics courses. Faculty strongly recommend that students interested in a specialization within their major select and take at least 9 of these 12 elective hours within one of the three Department Distribution Areas: Communication and Human Relationships, Public Communication and Media, or Applied Communication.

GRADING REQUIREMENT

A final grade of at least C- is required for all major coursework to count toward a Communication major. Courses may not be taken S/U where a grade option exists.
OTHER REQUIREMENTS

Service Learning

- SPC 4714 Communication, Culture, and Community

State Communication (formerly known as Gordon Rule Writing) Courses (6AC)

- COM 4020 Communicating Illness, Grief and Loss (Recommended)
- COM 4030 Women and Communication (Recommended)
- COM 4710 Writing Lives (Recommended)
- SPC 3425 Group Communication (Recommended)
- SPC 4305 Communicating Emotions (Recommended)
- SPC 4632 Rhetoric and Social Change (Recommended)

Global Citizens Certified Courses (GCPC)

- COM 2000 Introduction to Communication
- ORI 4019 Performing Identity and Culture

RESEARCH OPPORTUNITIES

All undergraduate students in any degree program can participate in undergraduate research. There are a number of options to receive academic credit for a mentored research experience and to have the experience show on the official transcript. Students who wish to enroll in an undergraduate research course should consult with their academic advisor to understand how the credit will apply towards the degree requirements. If no credit is needed, students may be eligible to enroll in the 0-credit IDS 2912, IDS 4914 or IDH 4910 courses. These courses will not impact degree credits or GPA but will show on an official transcript and document the experience. The Office of Undergraduate Research will assist students in understanding the various course options.

OPTIONAL 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. Students interested in the Honors Program should consult the department for further information about admission and program requirements.

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.

OTHER INFORMATION

Communication Career Pathways Information

Available on the Department of Communication website.

Student Organizations

- Lambda Pi Eta National Honorary Society
- Communication Council

ADVISING INFORMATION

The Department offers professional advising for all communication majors and minors. Email to: communicationadvise@usf.edu.
COMMUNICATION FACULTY


B.A. - ECONOMICS (ECO)

(CIP = 45.0601)
TOTAL DEGREE HOURS: 120

http://economics.usf.edu/undergraduate/ba_eco/

Economics offers a clear and logical way of thinking about complicated issues such as unemployment, inflation, pollution, and crime. The Department of Economics 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 Department of Economics for more information.

STATE MANDATED COMMON COURSE PREREQUISITES

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 General Education 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.

Transfer students are also required to comply with the immunization, foreign language, and continuous enrollment policies of the university.

Students should complete the following prerequisite courses 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 in prerequisite courses.

- ECO X013 and ECO X023 or ECO XXXX and ECO XXXX

REQUIREMENTS FOR THE MAJOR IN ECONOMICS

TOTAL MAJOR HOURS: 33

MAJOR REQUIREMENTS FOR THE B.A. DEGREE:

MAJOR CORE (18 HOURS)

A student may earn a Bachelor of Arts degree with a major in Economics by satisfactorily completing 33 credits in Economics in addition to college requirements.

- ECO 2013 Economic Principles: Macroeconomics
- ECO 2023 Economic Principles: Microeconomics
- ECO 3101 Intermediate Price Theory
- ECO 3203 Intermediate Macroeconomics
- ECO 2052 Analytical Tools for Economists
- STA 2023 Introductory Statistics I
Fifteen credit hours of Economics electives numbered 3000 or higher.

NOTE: ECO 1000 (if taken before both ECO 2013 and ECO 2023) if student receives a C- or better may be substituted for a maximum of 3 hours of upper-level economics elective credit.

- MAC 2233 Business Calculus or MAC 2311 Calculus I (or the equivalent) is an acceptable substitute for ECO 2052.
- QMB 3200 Business and Economics Statistics II is an acceptable substitute for STA 2023.
- ECO 2052, MAC 2233 Business Calculus, or MAC 2311 Calculus I (or the equivalent) must be taken as a prerequisite for ECO 3101 and ECO 3203.
- ECP 3703 Managerial Economics may be substituted for ECO 3101. Students may not take both for credit.
- No more than 3 hours credit can be applied toward a major from ECO 4914.
- Economics majors taking coursework at the other USF institutions may not be able to fulfill all Economics course requirements at those institutions.
- 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, STA 2023 (or QMB 2100) and ECO 2052 (or 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.
- 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, STA 2023 (or QMB 2100) and ECO 2052 (or 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.
- 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, STA 2023 (or QMB 2100), and ECO 2052 (or 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 the College of Arts and Sciences.
- 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.

COURSE GRADE REQUIREMENT

Students must obtain a grade of “C-” or higher in ECO 3101 or ECP 3703 in order to enroll in any course for which ECO 3101 or ECP 3703 is a prerequisite.

GRADING REQUIREMENT

Students must obtain a grade of “C-” or higher in all courses required for the major or minor in Economics.

RESIDENCY REQUIREMENT

At least 12 hours of upper level credit must be taken in residence at USF.
RESEARCH OPPORTUNITIES

All undergraduate students in any degree program can participate in undergraduate research. There are a number of options to receive academic credit for a mentored research experience and to have the experience show on the official transcript. Students who wish to enroll in an undergraduate research course should consult with their academic advisor to understand how the credit will apply towards the degree requirements. If no credit is needed, students may be eligible to enroll in the 0-credit IDS 2912, IDS 4914 or IDH 4910 courses. These courses will not impact degree credits or GPA but will show on an official transcript and document the experience. The Office of Undergraduate Research will assist students in understanding the various course options.

ACCELERATED B.A./M.A. PROGRAM

Accelerated B.A. in Economics and M.A. in Economics

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's and Master's degrees in Economics in five years.

ADVISING INFORMATION

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.

Department of Economics; econadvise@usf.edu

ECONOMICS FACULTY


B.A. - ENGLISH (ENG)

(CIP = 23.0101)
TOTAL DEGREE HOURS: 120

http://english.usf.edu/ug/

A bachelor's degree in English prepares students for any field that values critical thinking, high reading comprehension, clear and effective writing, and the ability to interpret and analyze data. It provides three concentrations from which students must choose one concentration: Creative Writing, Literary Studies, and Professional Writing, Rhetoric and Technology.

STATE MANDATED COMMON COURSE PREREQUISITES

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 General Education 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.

Transfer students are also required to comply with the immunization, foreign language, and continuous enrollment policies of the university.

Students should complete the following prerequisite courses 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 in prerequisite courses.

- ENC X101 Composition I or ENC XXXX*
• ENC X102 Composition II or ENC XXXX*

* Six semester hours of English coursework in which the student is required to demonstrate college-level English skills through multiple assignments.

REQUIREMENTS FOR THE MAJOR IN ENGLISH

MAJOR REQUIREMENTS FOR THE B.A. DEGREE:

Students may not use more than one directed study course toward meeting the major requirements.

GPA REQUIREMENTS

A 2.5 GPA in the major is required for graduation.

GRADING REQUIREMENT

A grade of below C- will not be counted toward fulfilling the major requirements.

RESIDENCY REQUIREMENT

Transfer students must earn at least 18 hours in the major at USF.

OTHER REQUIREMENTS

Students declaring English as a second major need to complete 30 credit hours. To do so, they must make a written request to the Undergraduate Director at the time they declare English as a second major. Courses taken in the first major may not count toward the 30 hours in English as a second major.

RESEARCH OPPORTUNITIES

All undergraduate students in any degree program can participate in undergraduate research. There are a number of options to receive academic credit for a mentored research experience and to have the experience show on the official transcript. Students who wish to enroll in an undergraduate research course should consult with their academic advisor to understand how the credit will apply towards the degree requirements. If no credit is needed, students may be eligible to enroll in the 0-credit IDS 2912, IDS 4914 or IDH 4910 courses. These courses will not impact degree credits or GPA but will show on an official transcript and document the experience. The Office of Undergraduate Research will assist students in understanding the various course options.

OPTIONAL HONORS PROGRAM

The Department of English Honors Program provides a carefully selected group of seniors with opportunities for advanced scholarship:

• Closer contact with faculty tutors than students in the regular major program;
• An opportunity to work and exchange ideas in the stimulating environment of a small group of fellow students with similar aims and abilities;
• 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 60 hours of coursework. 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.
   - All Honors students are required to complete at least one (three-hour) Honors seminar (ENG 4935 or ENG 4936).
   - Students may select from the following options to fulfill the remaining six hours of credit in Honors:
     - Up to two more (three-hour) Honors seminars (ENG 4935 or ENG 4936).
     - A three-hour independent study. The independent study should be connected to an eligible upper-level course in the major being taught in that semester.**
       • A list of courses available for this option will be made available prior to registration each semester. Students will attend some or all of the scheduled course meetings but will be enrolled in an independent study with the instructor. The independent study will be considered a special "Honors section" of the course and will require additional work that may include extra reading, class presentations, and advanced research-based writing. To enroll in an independent study, students will need written permission of the instructor, who will determine an Honors-appropriate workload for the course. The proposed plan for independent study must be approved by the Honors Committee and filed with the Undergraduate Director prior to registration. Students may count a maximum of one independent study in fulfillment of their degree requirements.
     - 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.
     - A three-hour graduate-level course. Enrollment in a graduate course is limited to Honors students in their final semester and requires written permission of the Undergraduate Director, Graduate Director, and the instructor of the course. To be eligible, students must have completed at least one Honors seminar with a grade of A- or higher.

3. To graduate with Departmental Honors, the student must satisfy the following requirements:
   - Complete 9 hours of English Honors courses as described above with a 3.30 GPA;
   - Complete all major requirements with a 3.30 GPA and academic coursework with an overall GPA of 3.0.

4. The student who completes all requirements above will graduate with Honors in English.

**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.

OTHER INFORMATION

The Department of English accepts American Sign Language competency (ASL) as a fulfillment of the Foreign Language Requirement.
CREATIVE WRITING (CRW) CONCENTRATION

http://english.usf.edu/ug/concentrations/creative/

This 36-hour concentration is designed for aspiring writers of fiction, poetry, and creative nonfiction. Students who graduate from this program will demonstrate the following: 1) knowledge of the forms and techniques of poetry, fiction, and creative nonfiction; 2) knowledge of literary genres and the techniques used by authors within each genre; 3) the ability to analyze literature in its cultural and philosophical context; and 4) the ability to critique student manuscripts and offer constructive feedback within a workshop setting.

REQUIREMENTS FOR THE CONCENTRATION IN CREATIVE WRITING

TOTAL CONCENTRATION HOURS: 36

CONCENTRATION CORE (36 HOURS)

1. Writing Requirements: Six (6) courses 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 (4) of the following courses:
     - CRW 3112 Fiction I
     - CRW 3121 Fiction II
     - CRW 3312 Poetry I
     - CRW 3321 Poetry II
     - CRW 4930 Selected Topics in Creative Writing
       - CRW 4930 may be repeated twice, with different content, for a total of six (6) credits hours. Choices would include creative nonfiction, screenwriting, craft courses in fiction/poetry, young adult literature, lyric poetry, etc.).

2. Literature Requirements: Six courses as follows:
   - One of the following courses that concentrates on literature written pre-1900:
     - AML 3031 American Literature from the Beginning to 1860
     - AML 3032 American Literature from 1860 to 1912
     - AML 4111 Nineteenth-Century American Novel
     - ENG 4060 History of the English Language
     - ENL 3015 British Literature to 1616
     - ENL 3016 Studies in 17th and 18th Century British Literature
     - ENL 3017 Studies in 19th Century British Literature
LITERARY STUDIES (LT S) CONCENTRATION

TOTAL DEGREE HOURS: 120

http://english.usf.edu/ug/concentrations/literature/

This concentration provides students with a knowledge of literary method, literary history, and a broad range of literary accomplishment (including knowledge of emerging fields, world literatures, and ethnic literatures). While the major places much emphasis on appreciating works of literature as artifacts produced in their own culture contexts, it also enables students to make connections between contemporary life and the study of literature. It evaluates students' grasp of formal and technical elements of literary practice and emphasizes the development of writing skills and the production of disciplinary writing. Successful completion of the major will enhance students' capacity for aesthetic enjoyment, critical reflection, and effective self-expression, and may provide preparation for further study (graduate and professional schools) or communication and research skills to be used in a work environment.

STATE MANDATED COMMON COURSE PREREQUISITES

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 General Education 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.

Transfer students are also required to comply with the immunization, foreign language, and continuous enrollment policies of the university.

Students should complete the following prerequisite courses 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 in prerequisite courses.

- ENC 1101 Composition I or ENC XXXX
- ENC 1102 Composition II or ENC XXXX
REQUIREMENTS FOR THE CONCENTRATION IN LITERARY STUDIES

TOTAL MAJOR HOURS: 36

MAJOR REQUIREMENTS FOR THE B.A. DEGREE:

MAJOR CORE (21 HOURS)

- I. Required Course (3 credit hours):
  - ENG 3014 Introduction to Literary Methodology (recommended during first 2 semesters of the major)

- II. Additional Requirements (18 credit hours):
  - Students must choose one course from the following list:
    - ENG 4013 Literary Criticism
    - ENG 4950 Senior Capstone
  - Literary Histories (9 credit hours)
    - Students must choose one course from three of the four pre-1900 categories:
      - Medieval/Renaissance
        - ENL 3015 British Literature to 1616
        - ENL 3331 Early Shakespeare
        - ENL 3332 Late Shakespeare
        - ENL 4203 Introduction to Old English
        - ENL 4311 Chaucer
        - ENL 4338 Advanced Studies in Shakespeare
        - ENL 4501 Studies in Medieval & Early Modern Literature
        - LIT 3101 Literature of the Western World through the Renaissance
      - 17th/18th Century British
        - ENL 3016 Studies in 17th and 18th Century British Literature
        - ENL 3230 British Literature 1616-1780
        - ENL 4112 Eighteenth-Century British Novel
        - ENL 4341 Milton
      - 19th Century British
        - ENL 3017 Studies in 19th Century British Literature
        - ENL 3251 British Literature 1780-1900
        - ENL 4122 19th Century British Novel
      - American Before 1900
        - AML 3031 American Literature from the Beginnings to 1860
        - AML 3032 American Literature from 1860 to 1912
        - AML 4111 Nineteenth-Century American Novel
  - Cultural-Critical Studies (3 credit hours)
    - Students must choose one course from the following list:
      - AML 3604 African American Literature
AML 3630 U.S. Latino/Latina Literature in English
AML 3641 Native American Literature and Film
AML 3674 Asian American Literature and Film
AML 4933 Studies in American Literature and Culture
LIT 3353 Literature, Race, and Ethnicity
LIT 3410 Religious and Philosophical Themes
LIT 3513 Literature, Gender, and Sexuality
LIT 4233 Postcolonial Literature
LIT 4386 British and American Literature by Women
LIT 4931 Studies in World Literature and Culture

Language and Genre (3 credit hours)

- Students must choose one course from the following list:
  - AML 4111 Nineteenth-Century American Novel
  - AML 4121 Twentieth-Century American Novel
  - AML 4931 American Literary Movements and Genre
  - ENG 3113 Film as Narrative Art
  - ENG 4060 History of the English Language
  - ENL 4112 Eighteenth-Century British Novel
  - ENL 4122 19th Century British Novel
  - ENL 4132 British Novel: Conrad to the Present
  - ENL 4930 Selected Topics
  - LIN 4671 Traditional English Grammar
  - LIN 4680 Structure of American English
  - LIT 3022 Modern Short Prose
  - LIT 3031 Survey of Poetry
  - LIT 3043 Modern Drama
  - LIT 3144 Modern European Novel

MAJOR ELECTIVES (15 HOURS)

- Students may count one course from the following list:
  - Any one LIT 2000-level course may count as an elective:
    - LIT 2000 Introduction to Literature
    - LIT 2010 Introduction to Fiction
    - LIT 2020 Introduction to the Short Story
    - LIT 2030 Introduction to Poetry
    - LIT 2040 Introduction to Drama
Students may select four additional courses (12 credit hours) from the following list:

- AML 3051 American Literature from 1912 to 1945
- AML 3243 American Literature from 1945 to the Present
- AML 4261 Literature of the South
- AML 4300 Selected American Authors
- ENG 4013 Literary Criticism (recommended for those planning to attend graduate school)
- ENL 3026 Studies in the Twentieth-Century Literature
- ENL 3273 British Literature 1900-1945
- ENL 4303 Selected British Authors
- LIT 3093 Contemporary Literature
- LIT 3102 Literature of the Western World since the Renaissance
- LIT 3374 The Bible as Literature
- LIT 3930 Selected Topics in English Studies
- LIT 4930 Selected Topics in English Studies
- Any additional LTS major course listed above
- Any major CRW course listed under the Creative Writing concentration
- Any major ENC course listed under the Professional Writing, Rhetoric and Technology concentration

Students may not use more than one directed study course toward meeting the major and concentration requirements.

GPA REQUIREMENTS

A 2.5 GPA in the major is required for graduation.

GRADING REQUIREMENT

A grade of below C- will not be counted toward fulfilling the major requirements.

RESIDENCY REQUIREMENT

Transfer students must earn at least 18 hours in the major at USF.

OTHER REQUIREMENTS

Students declaring English as a second major need to complete 30 credit hours. To do so, they must make a written request to the Undergraduate Director at the time they declare English as a second major. Courses taken in the first major may not count toward the 30 hours in English as a second major.

INTERNSHIP OPPORTUNITIES

Students may use an Internship as an elective; in the semester they complete the internship, they must register for ENC 4940 (3 credit hours). Students may complete more than one Internship; however, only 3 credits of ENC 4940 can be applied toward major requirements.

ADVISING INFORMATION

englishadvise@usf.edu; 813-974-8508
This concentration provides students with both a practical and a theoretical orientation to communication in a variety of media and genres. The program prepares students to work as innovative professional communicators in a variety of fields – from government to business to medicine. It also prepares students for graduate programs in rhetoric, composition, and professional communication. The program produces graduates who can think critically about communication, contexts, and technology as well as compose technologically-mediated documents and products using a variety of tools.

REQUIREMENTS FOR THE CONCENTRATION IN PROFESSIONAL WRITING, RHETORIC AND TECHNOLOGY

TOTAL CONCENTRATION HOURS: 36

CONCENTRATION CORE (15 HOURS)
- ENC 3242 Technical Communication for Majors
- ENC 3416 New Media for Technical Communication
- ENC 4218 Visual Rhetoric for Technical Communication
- ENC 4311 Advanced Composition
- ENC 4940 Professional/Technical Communications Internship

Concentration Electives (21 hours)
- ENC 3250 Professional Writing
- ENC 3310 Expository Writing
- ENC 3371 Rhetorical Theory for Technical Communication
- ENC 3435 Rhetoric and Gaming
- ENC 4260 Advanced Technical Writing
- ENC 4931 Selected Topics in Technical and Professional Writing
- Any upper-level courses listed in the Literary Studies concentration.
- Any upper-level courses listed in the Creative Writing concentration.

ADVISING INFORMATION
englishadvise@usf.edu; 813-974-8508

B.S. - ENVIRONMENTAL BIOLOGY (ENB)
(CIP = 26.0101 - TRACK 1 OF 2)
TOTAL DEGREE HOURS: 120

Students majoring in Environmental Biology study the ways in which organisms interact with the environment, and how they adapt to changing environments. The program of study explores the interconnections among biology, ecology, evolution, and conservation. The objective of the program of study is to provide students with a firm foundation in basic biology and the tools necessary to function as professional biologists, with special emphasis on natural ecosystems. The program will prepare students for further education (ecology, environmental science, conservation biology, field botany) or for careers in fields such as environmental biology, environmental consulting, agricultural and forestry resource management, conservation biology and education, and wildlife biology.
STATE MANDATED COMMON COURSE PREREQUISITES

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 General Education 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.

Transfer students are also required to comply with the immunization, foreign language, and continuous enrollment policies of the university.

Students should complete the following prerequisite courses 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 in prerequisite courses.

- BSC X010/X010L Biology I with Lab or BSC X010C or BSC X040/X040L or BSC X040C
- BSC X011/X011L Biology II with Lab or BSC X011C or BSC X041/X041L or ZOO X010/X010L or BOT X010/X010L or BOT X013/X013L or BSC X041C or ZOO X0101C or BOT X0101C or BOT X013C
- CHM X045/X045L General Chemistry I with Lab or CHM X045C or CHM X040 and CHM X041
- CHM X046/X046L General Chemistry II with Lab or CHM X046C
- CHM X210/X210L Organic Chemistry I with Lab and CHM X211/X211L or (CHM X210C and CHM X211C) or [PHY X053 and (PHY X053L or PHY X048L) and PHY X054 and (PHY X054L or PHY X049L)] or (PHY X048/X048L and PHY X049/X049L)
- MAC X311 Calculus I or MAC X233 or MAC X253 or MAC X281 or MAC X241
- MAC X312 Calculus II or MAC X282 or MAC X234 or STA X023 or STA X024 or STA X321

REQUIREMENTS FOR THE MAJOR IN ENVIRONMENTAL BIOLOGY

REQUIRED SUPPORTING COURSES FOR THE MAJOR: 32-34 HOURS

The following courses are prerequisite and supporting courses for this major. They are required for the major, but are not counted in the total hours for this major. The degree will not be awarded if these courses have not been taken by the end of the student’s final semester.

- CHM 2045 and CHM 2045L General Chemistry I and Laboratory
- CHM 2046 and CHM 2046L General Chemistry II and Laboratory
- CHM 2210 and CHM 2210L Organic Chemistry I and Laboratory
- CHM 2211 and CHM 2211L Organic Chemistry II and Laboratory
- Calculus I: MAC 2241 or MAC 2311 or MAC 2281
- Statistics or Calculus II: STA 2023 or MAC 2242 or MAC 2312 or MAC 2282
- One of the Physics Sequences:
  - PHY 2053/2053L General Physics I and PHY 2054/2054L General Physics II
  - PHY 2048/2048L General Physics I - Calculus Based and PHY 2049/2049L General Physics II - Calculus Based
    - PHY 2060 may substitute for PHY 2048 and PHY 2061 may substitute for PHY 2049.

Students must receive a C- or better to meet requirements for degree (for progression in Math and CHM, a C is required).
TOTAL MAJOR HOURS: 40-41

MAJOR REQUIREMENTS FOR THE B.S. DEGREE:

MAJOR CORE (25-26 HOURS)

Biology Core Curriculum

- BSC 2010 and BSC 2010L Cellular Processes and Laboratory
- BSC 2011 and BSC 2011L Biodiversity and Laboratory
- PCB 3043 and PCB 3043L Principles of Ecology and Laboratory
- PCB 3063 and PCB 3063L General Genetics and Laboratory
- BSC 4052 Conservation Biology
- PCB 4674 Organic Evolution
- Choose one of the following courses:
  - BOT 4601 Plant Ecology
  - BSC 4933 Selected Topics in Biology*

*Selected topics as approved for the major by the Department of Integrative Biology

MAJOR ELECTIVES (15 HOURS)

Select a minimum of 15 credit hours from the following list:

- BCH 4033 Advanced Biochemistry I
- BSC 2093C Human Anatomy and Physiology I
- BSC 2094C Human Anatomy and Physiology II
- Any upper-level course with a BOT, BSC, ENY, MCB, PCB, or ZOO prefix, with the exception of those intended for non-majors*

*Note: BSC 4933 cannot be taken as elective credit without prior approval.

Effective Fall 2018, all students in the below listed programs must successfully complete the below science and math coursework without earning D and/or F grades. Students unable to successfully complete these courses within these prescribed parameters will be required to select a different major and will not be permitted to take any additional courses offered by the below Departments/Divisions. In addition, registration for all courses offered by these departments will be dependent on students meeting the prescribed parameters regardless of their major.

Furthermore, any student who requests a change of major to one offered in the below identified departments will be required to meet these prescribed parameters as well as those criteria outlined in the Degree Progression Policy 10-505. Any continuing student who was previously forced to select a different major based on previous versions of this policy may now be eligible to pursue the majors listed below, but only if they meet both the criteria described here as well as the Degree Progression Policy 10-505 criteria. Students who are able to complete one of the below majors by earning fewer credit hours than required to complete any other major offered at USF may petition to request an exception and should contact the School of Natural Sciences and Mathematics Advising Office for instructions. Grade Forgiveness will NOT apply to the mandated requirement of changing majors.

Included Departments/Divisions:

Division of Health Professions Advising; Department of Chemistry; Department of Cell Biology, Microbiology and Molecular Biology; and Department of Integrative Biology.
Included courses:
BCH 3053; BSC 2010; BSC 2011; BSC 2085; BSC 2086; BSC 2093C; BSC 2094C; BSC 2932; CHM 2023; CHM 2045; CHM 2046; CHM 2210; CHM 2211; CHS 2440; MAT 1033; MAC 1105; MAC 1147; MAC 2241; MAC 2242; MAC 2281; MAC 2282; MAC 2311; MAC 2312; MCB 3020; PCB 3023; PCB 3063; PHY 2053; PHY 2054; PHY 2048; PHY 2049; PHY 2060; PHY 2061; STA 2023.

COURSE GRADE REQUIREMENT

Please note that some supporting science courses may require a grade of C or better in order to meet the prerequisite requirements for course sequences.

GRADING REQUIREMENT

A student must receive a C- grade or better in all Department of Integrative Biology and Department of Cell Biology, Microbiology, and Molecular Biology courses and supporting courses in the natural sciences, except if they are used as general elective courses. This specification applies to both USF and transfer courses.

RESIDENCY REQUIREMENT

A minimum of 20 credits hours of elective courses must be taken in residency and be applicable to the major.

Once a student has matriculated to USF Tampa, he/she is expected to take 100 percent of the required major coursework at USF Tampa.

RESEARCH OPPORTUNITIES

Undergraduate research is a great way to get hands-on experience in what you are studying and learning in your courses, and even to advance biological knowledge. Many students have authored articles based on their participation in on-going research in the Department. Undergraduate research also is a great way to boost your resume and to enhance your application to graduate school or health professional school. Several ways are available to get involved; see http://biology.usf.edu/ib/ug/research/.

To be eligible to receive credit for undergraduate research (BSC 4910), students must have Junior standing, a 3.0 USF GPA, and a 3.0 major GPA. A maximum of 4 credit hours BSC 4910 may be applied to the major electives; see http://biology.usf.edu/bioadvise/ug-research/credit.aspx.

ACCELERATED B.S./M.A.T. PROGRAM

Accelerated B.S. in Environmental Biology and M.A.T. in Science Education

This program intends for students to complete a B.S. in Environmental Biology (College of Arts and Sciences) and M.A.T. in Science Education (College of Education) over the span of five years. Students completing this program will be eligible for high school and/or middle school science teacher certification. Completion of this program requires students to complete 12 credit hours toward the M.A.T. in Science Education during their senior year in the Environmental Biology major.

ADVISING INFORMATION

BioAdvise: Science Center (SCA) 203; (813) 974-3250
http://biology.usf.edu/bioadvise/
Email: bioadvise@usf.edu

ENVIRONMENTAL BIOLOGY FACULTY

B.S. - ENVIRONMENTAL MICROBIOLOGY (EMB)
(CIP = 26.0101 - TRACK 1 OF 2)
TOTAL DEGREE HOURS: 120

http://biology.usf.edu/ib/ug/bs/

Students majoring in Environmental Microbiology study the roles that microorganisms play in the environment. The program of study explores the diversity, community structure, and ecological functioning of microorganisms. The objective of the program is to provide students with a firm foundation in basic biology and the tools necessary to function as professional biologists, with special emphasis on microorganisms in natural ecosystems and human-engineered systems. The program will prepare students for further education (microbiology, environmental science, conservation biology) or for careers in fields such as environmental monitoring and safety, characterization and control of pathogenic microorganisms, and bioremediation.

STATE MANDATED COMMON COURSE PREREQUISITES

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 General Education 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.

Transfer students are also required to comply with the immunization, foreign language, and continuous enrollment policies of the university.

Students should complete the following prerequisite courses 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 in prerequisite courses.

- BSC X010/X010L Biology I with Lab or BSC X010C or BSC X040/X040L or BSC X040C
- BSC X011/X011L Biology II with Lab or BSC X011C or BSC X041/X041L or ZOO X010/X010L or BOT X010/X010L or BOT X013/X013L or BSC X041C or ZOO X0101C or BOT X0101C or BOT X013C
- CHM X045/X045L General Chemistry I with Lab or CHM X045C or CHM X040 and CHM X041
- CHM X046/X046L General Chemistry II with Lab or CHM X046C
- CHM X210/X210L Organic Chemistry I with Lab and CHM X211/X211L or (CHM X210C and CHM X211C) or [PHY X053 and (PHY X053L or PHY X048L) and PHY X054 and (PHY X054L or PHY X049L)] or (PHY X048/X048L and PHY X049/X049L)
- MAC X311 Calculus I or MAC X233 or MAC X253 or MAC X281 or MAC X241
- MAC X312 Calculus II or MAC X282 or MAC X234 or STA X023 or STA X024 or STA X321

REQUIREMENTS FOR THE MAJOR IN ENVIRONMENTAL MICROBIOLOGY

REQUIRED SUPPORTING COURSES FOR THE MAJOR: 32-34 HOURS

The following courses are prerequisite and supporting courses for this major. They are required for the major, but are not counted in the total hours for this major. The degree will not be awarded if these courses have not been taken by the end of the student’s final semester.

- CHM 2045 and CHM 2045L General Chemistry I and Laboratory
- CHM 2046 and CHM 2046L General Chemistry II and Laboratory
- CHM 2210 and CHM 2210L Organic Chemistry I and Laboratory
- CHM 2211 and CHM 2211L Organic Chemistry II and Laboratory
- Calculus I: MAC 2241 or MAC 2311 or MAC or MAC 2281
Statistics or Calculus II: STA 2023 or MAC 2242 or MAC 2312 or MAC 2282

One of the Physics Sequences:
  - PHY 2053/2053L General Physics II and PHY 2054/2054L General Physics II
  - PHY 2048/2048L General Physics I - Calculus Based and PHY 2049/2049L General Physics II - Calculus Based
    - PHY 2060 may substitute for PHY 2048 and PHY 2061 may substitute for PHY 2049.

Students must receive a C- or better to meet requirements for degree (for progression in Math and CHM, a C is required).

TOTAL MAJOR HOURS: 40

MAJOR REQUIREMENTS FOR THE B.S. DEGREE:

MAJOR CORE (30 HOURS)

Biology Core: (16 hours)

- BSC 2010 and BSC 2010L Cellular Processes and Laboratory
- BSC 2011 and BSC 2011L Biodiversity and Laboratory
- PCB 3043 and PCB 3043L Principles of Ecology and Laboratory
- PCB 3063 and PCB 3063L General Genetics and Laboratory

Environmental Microbiology Core: (14 hours)

- MCB 3020 and MCB 3020L General Microbiology and Laboratory
- MCB 4404 and MCB 4404L Microbial Physiology and Genetics and Laboratory

Choose two of the following courses:

- BSC 4933 Selected Topics in Biology*
- BSC 4444 Genomics
- MCB 4202 Ecology of Infectious Diseases
- ZOO 4233 Parasitology

*Selected topics as approved for the major by the Department of Integrative Biology

MAJOR ELECTIVES (10 HOURS)

Select a minimum of 10 credit hours from the following list:

- BCH 4033 Advanced Biochemistry I
- BSC 2093C Human Anatomy and Physiology I
- BSC 2094C Human Anatomy and Physiology II
- Any upper-level course with a BOT, BSC, ENY, MCB, PCB, or ZOO prefix, with the exception of those intended for non-majors*

*Note: BSC 4933 cannot be taken as elective credit without prior approval.

Effective Fall 2018, all students in the below listed programs must successfully complete the below science and math coursework without earning D and/or F grades. Students unable to successfully complete these courses within these prescribed parameters will be required to select a different major and will not be permitted to take any additional courses offered by the below Departments/Divisions. In addition, registration for all courses offered by these departments will be dependent on students meeting the prescribed parameters regardless of their major.
Furthermore, any student who requests a change of major to one offered in the below identified departments will be required to meet these prescribed parameters as well as those criteria outlined in the Degree Progression Policy 10-505. Any continuing student who was previously forced to select a different major based on previous versions of this policy may now be eligible to pursue the majors listed below, but only if they meet both the criteria described here as well as the Degree Progression Policy 10-505 criteria. Students who are able to complete one of the below majors by earning fewer credit hours than required to complete any other major offered at USF may petition to request an exception and should contact the School of Natural Sciences and Mathematics Advising Office for instructions. Grade Forgiveness will NOT apply to the mandated requirement of changing majors.

Included Departments/Divisions:
Division of Health Professions Advising; Department of Chemistry; Department of Cell Biology, Microbiology and Molecular Biology; and Department of Integrative Biology.

Included courses:
BCH 3053 BS 2010; BSC 2085; BSC 2086; BSC 2093C; BSC 2094C; BSC 2932; CHM 2023; CHM 2045; CHM 2046; CHM 2210; CHM 2211; CHS 2440; MAT 1033; MAC 1105; MAC 1147; MAC 2241; MAC 2242; MAC 2281; MAC 2282; MAC 2311; MAC 2312; MCB 3020; PCB 3023; PCB 3063; PHY 2053; PHY 2054; PHY 2048; PHY 2049; PHY 2060; PHY 2061; STA 2023.

GPA REQUIREMENTS
Must maintain a 2.0 GPA in all major coursework.

GRADING REQUIREMENT
A student must receive a C- grade or better in all Department of Integrative Biology and Department of Cell Biology, Microbiology, and Molecular Biology courses and supporting courses in the natural sciences and mathematics, except if they are used as general elective courses. This specification applies to both USF and transfer courses.

RESIDENCY REQUIREMENT
A minimum of 20 credit hours of courses must be taken in residency and be applicable to the major.
Once a student has matriculated to USF Tampa, he/she is expected to take 100 percent of the required major coursework at USF Tampa.

RESEARCH OPPORTUNITIES
Undergraduate research is a great way to get hands-on experience in what you are studying and learning in your courses, and even to advance biological knowledge. Many students have authored articles based on their participation in on-going research in the Department. Undergraduate research also is a great way to boost your resume and to enhance your application to graduate school or health professional school. Several ways are available to get involved; see http://biology.usf.edu/ib/ug/research/.

To be eligible to receive credit for undergraduate research (BSC 4910), students must have Junior standing, a 3.0 USF GPA, and a 3.0 major GPA. A maximum of 4 credit hours BSC 4910 may be applied to the major electives; see http://biology.usf.edu/bioadvise/ug-research/credit.aspx.

ACCELERATED B.S./M.A.T. PROGRAM
Accelerated B.S. in Environmental Microbiology and M.A.T. in Science Education
This program intends for students to complete a B.S. in Environmental Microbiology (College of Arts and Sciences) and an M.A.T. in Science Education (College of Education) over the span of five years. Students completing this program will be eligible for high school and/or middle school science teacher certification. Completion of this program requires students to complete 12 credit hours toward the M.A.T. in Science Education during their senior year in the Environmental Microbiology major.
ENVIRONMENTAL MICROBIOLOGY FACULTY


B.S. - ENVIRONMENTAL SCIENCE AND POLICY (ESP)

(CIP = 03.0104 - TRACK 1 OF 2)
TOTAL DEGREE HOURS: 120

http://hennarot.forest.usf.edu/main/depts/geosci/ug/esp/

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. This interdisciplinary major spans multiple programs within the School of Geosciences in the College of Arts and Sciences. All majors in the program must complete the required courses including two introductory courses in environmental science and policy, one semester of calculus, two semesters each of general biology and general chemistry, environmental ethics, global conservation, statistics and physical science (either geology or geography). In addition, majors take 6-7 courses that allow them to sub-specialize in environmental science or in environmental policy. Students choosing to sub-specialize in environmental science take a second semester of calculus, one semester of organic chemistry and lab, and four electives within designated tracks. Students choosing to sub-specialize in policy take environmental regulation and economic geography and four electives within designated categories. Finally, all majors must complete an upper division seminar and an internship or project.

STATE MANDATED COMMON COURSE PREREQUISITES

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 General Education 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.

Transfer students are also required to comply with the immunization, foreign language, and continuous enrollment policies of the university.

Students should complete the following prerequisite courses 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 in prerequisite courses.

- BSC X010/X010L Biology I and Lab or BSC X010C
- BSC X011/X011L Biology II and Lab or BSC X011C
- CHM X045/X045L General Chemistry I & Lab or BSC X045C
- CHM X046/X046L General Chemistry II & Lab or BSC X046C
- STA X023 Statistics
- MAC X311 Calculus I
TOTAL MAJOR HOURS: 61-69

MAJOR REQUIREMENTS FOR THE B.S. DEGREE:

MAJOR CORE (43-44 HOURS)

Core Courses (39-40 credit hours):
- EVR 2001 Introduction to Environmental Science
- EVR 2001L Environmental Science Lab
- EVR 2861 Introduction to Environmental Policy
- BSC 2010 Cellular Processes
- BSC 2010L Cellular Processes Laboratory
- BSC 2011 Biodiversity
- BSC 2011L Biodiversity Laboratory
- CHM 2045 General Chemistry I
- CHM 2045L General Chemistry I Laboratory
- CHM 2046 General Chemistry II
- CHM 2046L General Chemistry II Laboratory
- GEO 4372 Global Conservation
- PHI 3640 Environmental Ethics
- EVR 4910 ESP Project or EVR 4940 ESP Internship
- EVR 4921 Environmental Science and Policy Seminar
- MAC 2311 Calculus I or MAC 2241
- STA 2023 Introductory Statistics I

Geology or Geography (4 credit hours):
- GLY 2010 Dynamic Earth: Intro to Physical Geography and GLY 2000L Essentials of Geology Lab or
- GLY 2100 History of Life and GLY 2000L Essentials of Geology Lab or
- GEO 2200 Introduction to Physical Geography and GEO 2200L Introduction to Physical Geography Lab

MAJOR ELECTIVES (18-25 HOURS)

The ESP Undergraduate Program has two tracks (Science and Policy). Students should choose one of these tracks and follow the course requirements:

Science Track (21-25 credit hours)
- MAC 2242 Life Sciences Calculus II or MAC 2282 or MAC 2312
- CHM 2210 Organic Chemistry I
- CHM 2210L Organic Chemistry I Laboratory
- Plus four (4) approved science-related electives.
  - Options include:
    - BSC 3312 Marine Biology
    - ENV 4417 Water Quality and Treatment
• EVR 4027 Wetland Environments
• EVR 4104 Karst Environments
• EVR 4114 Climate Change
• EVR 4163 Forest Ecology and Management
• EVR 3218 Wildlife Research Methods
• EVR 4807 Sustainable Healthy Environments
• EVR 4930 Selected Topics
• GEO 3280 Environmental Hydrology
• GEO 4210 Process Geomorphology
• GEO 4265 Soil Genesis and Classification
• GEO 4300 Biogeography
• GEO 4340 Natural Hazards
• GIS 4035C Remote Sensing of the Environment
• GIS 4043C Geographical Information Systems
• GLY 3104C Stratigraphy and Paleontology
• GLY 3552C Sedimentary Rocks and Processes
• GLY 4554C Sedimentary Environments
• GLY 4720C Aqueous and Environmental Geochemistry
• GLY 4734 Beaches and Coastal Environments
• GLY 4822C Hydrogeology
• GLY 4930 Selected Topics in Geology
• MET 4002C Climatology
• MET 4012C Meteorology
• MET 4106C Climate Studies
• PCB 3043/PCB 3043L Principles of Ecology/Lab

Policy Track (18 credit hours)
• GEO 4502 Economic Geography
• EVR 4033 Environmental Regulation
• Plus four (4) approved policy-related electives.
  • Options include:
    • EVR 4027 Wetland Environments
    • EVR 4104 Karst Environments
    • EVR 4114 Climate Change
    • EVR 4163 Forest Ecology and Management
    • EVR 3218 Wildlife Research Methods
    • EVR 4807 Sustainable Healthy Environments
    • EVR 4930 Selected Topics
    • GEO 3602 Urban Geography
COLLEGE OF ARTS & SCIENCES

UNIVERSITY OF SOUTH FLORIDA 2019-20 UNDERGRADUATE CATALOG

- GEO 4340 Natural Hazards
- GEO 4421 Cultural Geography
- GEO 4471 Political Geography
- GEO 4604 Topics in Urban Geography
- GEO 4700 Transportation Geography
- GIS 4043C Geographical Information Systems
- PAD 3003 Introduction to Public Administration
- PAD 4144 Non-Profit Organizations and Public Policy
- PAD 4930 Selected Topics in Public Administration and Public Policy
- POS 3142 Introduction to Urban Politics and Government
- POS 3182 Florida Politics and Government
- REL 4188 Religion and Ecology Seminar
- URP 4052 Urban and Regional Planning

GRADING REQUIREMENT

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

RESEARCH OPPORTUNITIES

All undergraduate students in any degree program can participate in undergraduate research. There are a number of options to receive academic credit for a mentored research experience and to have the experience show on the official transcript. Students who wish to enroll in an undergraduate research course should consult with their academic advisor to understand how the credit will apply towards the degree requirements. If no credit is needed, students may be eligible to enroll in the 0-credit IDS 2912, IDS 4914 or IDH 4910 courses. These courses will not impact degree credits or GPA but will show on an official transcript and document the experience. The Office of Undergraduate Research will assist students in understanding the various course options.

ADVISING INFORMATION

Please see http://hennarot.forest.usf.edu/main/depts/geosci/ug/advising/ and/or contact Teresa Ippolito, the Environmental Science and Policy Academic Advisor. She may be contacted via email at: GeoAdvise@usf.edu; by phone at (813) 974-3250; office location is Science Center (SCA) 207.

All students majoring in Environmental Science and Policy are required to see the advisor (Teresa Ippolito—see above 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; mizak@usf.edu) six weeks prior to the beginning of the semester in which they will complete the internship.

ENVIRONMENTAL SCIENCE AND POLICY FACULTY

Chairperson: M. Rains; Associate Chairperson: J. Firat; Professors: A. Njoh, G. Tobin; Associate Professors: F. Akiwumi, K. Alsharif, M. Bosman, J. Collins, J. Firat, R. Pu, S. Reader, P. van Beynen; Senior Instructor: C. Mizak; Instructors: L. Walker, E. Walton.
B.A. - GEOGRAPHY (GPY)
(CIP = 45.0701)
TOTAL DEGREE HOURS: 120
http://hennarot.forest.usf.edu/main/depts/geosci/

The undergraduate geography program offers courses in physical geography, human geography, and geographical analysis. Human geography courses 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. Physical geography courses focus on major environmental systems including the hydrosphere, atmosphere, and biosphere. Geographical analysis courses provide skills in geographic information systems science and technology, remote sensing and spatial analysis. Particular emphasis is placed on the human modification of the natural environment and the global interconnections of the major earth systems.

STATE MANDATED COMMON COURSE PREREQUISITES

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 General Education 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.

Transfer students are also required to comply with the immunization, foreign language, and continuous enrollment policies of the university.

Students should complete the following prerequisite courses 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.

- Two introductory courses in Geography with GEO prefix (6 credit hours) must be completed.

REQUIREMENTS FOR THE MAJOR IN GEOGRAPHY

TOTAL MAJOR HOURS: 14

MAJOR REQUIREMENTS FOR THE B.A. DEGREE:

MAJOR CORE (14 HOURS)

The Geography bachelor's degree of 44 total hours comprises six core courses (14 credit hours) that includes a specified concentration (30 credit hours). To complete their elective requirements for Geography, students are encouraged to consider courses offered in Geology and Environmental Science and Policy.

- GEO 2200 Introduction to Physical Geography
- GEO 2200L Introduction to Physical Geography Lab
- GEO 2400 Human Geography
- GEO 3164C Research Methods in Geography
- GEO 4933 Geography Colloquium
- GIS 4043C Geographic Information Systems

Three concentrations are offered: Physical Geography, Human Geography, and General Geography, comprising 30 credit hours (10 courses) each. Students must identify a concentration in consultation with their academic advisor in the School of Geosciences and select appropriate courses as shown below.
GPA REQUIREMENTS

Students must maintain a minimum 2.0 major GPA in order to graduate.

GRADING REQUIREMENTS

Students must earn a C- or better in all major coursework.

RESEARCH OPPORTUNITIES

All undergraduate students in any degree program can participate in undergraduate research. There are a number of options to receive academic credit for a mentored research experience and to have the experience show on the official transcript. Students who wish to enroll in an undergraduate research course should consult with their academic advisor to understand how the credit will apply towards the degree requirements. If no credit is needed, students may be eligible to enroll in the 0-credit IDS 2912, IDS 4914 or IDH 4910 courses. These courses will not impact degree credits or GPA but will show on an official transcript and document the experience. The Office of Undergraduate Research will assist students in understanding the various course options.

ADVISING INFORMATION

Students are encouraged to seek assistance with the choice of electives through the department undergraduate advisor.

GEOGRAPHY FACULTY

Chairperson: M. Rains; Associate Chairperson: J. Firat; Professors: A. Njoh, G. Tobin; Associate Professors: F. Akiwumi, K. Alsharif, M. Bosman, J. Collins, J. Firat, R. Pu, S. Reader, P. van Beynen; Senior Instructor: C. Mizak; Instructors: L. Walker, E. Walton.

GENERAL GEOGRAPHY (GGG) CONCENTRATION

REQUIREMENTS FOR THE CONCENTRATION IN GENERAL GEOGRAPHY

TOTAL CONCENTRATION HOURS: 44

CONCENTRATION CORE (30 HOURS)

Students must take a minimum of:

- Two courses from the Physical Geography category (6 credit hours)
  - EVR 4027 Wetland Environments
  - EVR 4104 Karst Environments
  - EVR 3218 Wildlife Research Techniques
  - GEO 3280 Environmental Hydrology
  - GEO 4210 Process Geomorphology
  - GEO 4244 Tropical Meteorology
  - GEO 4265 Soil Genesis and Classification
  - GEO 4300 Biogeography
  - GLY 4734 Beaches and Coastal Environments
  - MET 4002C Climatology
  - MET 4012C Meteorology
  - MET 4106C Climate Studies

- Two courses from the Human Geography category (6 credit hours)
  - GEO 3602 Urban Geography
Two courses from the Human Environment Interaction category (6 credit hours)
- EVR 4033 Environmental Regulation
- EVR 4114 Climate Change
- EVR 4807 Sustainable Healthy Environments
- EVR 4873 Environmental Policy and Sustainability
- GEO 4284 Water Resources Management
- GEO 4340 Natural Hazards
- GEO 4372 Global Conservation
- GEO 4450 Medical Geography

One course from the Geographical Technique Analysis category (3 credit hours)
- GEO 4114C Geographic Techniques and Methodology
- GIS 4035C Remote Sensing of the Environment
- GIS 4300 Environmental Modeling with GIS
- GIS 5075 Global Positioning Systems

One course from the Regional Perspectives category (3 credit hours)
- 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

Two additional courses selected from any Geography category (6 credit hours)
- Student will take six credit hours of unduplicated coursework from any of the Geography categories.
  - A maximum of three credit hours can be taken as Directed Reading (GEO 4900) and/or Individual Research (GEO 4910) and count as one of these additional courses.
*Course may be taken one additional time.

Courses taken as Special Topics in Geography (GEO 4930), Selected Topics in Geology (GLY 4930), and Selected Topics in Environmental Science and Policy (EVR 4930) may substitute for elective courses in particular categories as designated by the undergraduate director.
REQUIREMENTS FOR THE CONCENTRATION IN PHYSICAL GEOGRAPHY

TOTAL CONCENTRATION HOURS: 44

CONCENTRATION CORE (30 HOURS)

Students must take a minimum of:

- Five courses from the Physical Geography category (15 credit hours)
  - EVR 4027 Wetland Environments
  - EVR 4104 Karst Environments
  - EVR 3218 Wildlife Research Techniques
  - GEO 3280 Environmental Hydrology
  - GEO 4210 Process Geomorphology
  - GEO 4244 Tropical Meteorology
  - GEO 4265 Soil Genesis and Classification
  - GEO 4300 Biogeography
  - GLY 4734 Beaches and Coastal Environments
  - MET 4002C Climatology
  - MET 4012C Meteorology
  - MET 4106C Climate Studies

- One course from the Human Environment Interaction category (3 credit hours)
  - EVR 4033 Environmental Regulation
  - EVR 4114 Climate Change
  - EVR 4807 Sustainable Healthy Environments
  - EVR 4873 Environmental Policy and Sustainability
  - GEO 4284 Water Resources Management
  - GEO 4340 Natural Hazards
  - GEO 4372 Global Conservation
  - GEO 4450 Medical Geography

- One course from the Geographical Technique and Analysis category (3 credit hours)
  - GEO 4114C Geographic Techniques and Methodology
  - GIS 4035C Remote Sensing of the Environment
  - GIS 4300 Environmental Modeling with GIS
  - GIS 5075 Global Positioning Systems

- One course from the Regional Perspectives category (3 credit hours)
  - GEA 2000 World Regional Geography
  - GEA 3194 Regional Geography*
  - GEA 3405 Geography of Latin America
  - GEA 3500 Geography of Europe
HUMAN GEOGRAPHY (USG) CONCENTRATION

REQUIREMENTS FOR THE CONCENTRATION IN HUMAN GEOGRAPHY

TOTAL CONCENTRATION HOURS: 44

CONCENTRATION CORE (30 HOURS)

Students must take a minimum of:

- Four courses from the Human Geography category (12 credit hours)
  - GEO 3602 Urban Geography
  - GEO 4421 Cultural Geography
  - GEO 4471 Political Geography
  - GEO 4502 Economic Geography
  - GEO 4700 Transportation Geography
  - URP 4052 Urban and Regional Planning

- Two courses from the Human Environment Interaction category (6 credit hours)
  - EVR 4033 Environmental Regulation
  - EVR 4114 Climate Change
  - EVR 4807 Sustainable Healthy Environments
  - EVR 4873 Environmental Policy and Sustainability
  - GEO 4284 Water Resources Management
  - GEO 4340 Natural Hazards
  - GEO 4372 Global Conservation
  - GEO 4450 Medical Geography

- One course from the Geographical Technique and Analysis category (3 credit hours)
  - GEO 4114C Geographical Techniques and Methodology
  - GIS 4035C Remote Sensing of the Environment
  - GIS 4300 Environmental Modeling with GIS
  - GIS 5075 Global Positioning Systems

- One course from the Regional Perspectives category (3 credit hours)
  - GEA 2000 World Regional Geography
The Bachelor of Science degree program provides the student with a hands-on foundation in the fundamentals of the geosciences. As a result of faculty interests and geographic locations, several geologic sub-disciplines are emphasized, including applied geophysics, coastal geology, geochemistry, geomorphology, geoscience education, hydrogeology, paleobiology, petrology, and volcanology. However, the wide variety of courses and electives offered by the Geology, Environmental Sciences, and Geography programs within the School of Geosciences provides students with programs of study that can be tailored to fit individual needs while maintaining a sound background in all general aspects of geology.

STATE MANDATED COMMON COURSE PREREQUISITES

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 General Education 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.

Transfer students are also required to comply with the immunization, foreign language, and continuous enrollment policies of the university.

Students should complete the following prerequisite courses 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 in prerequisite courses.

- CHM X045/X045L General Chemistry I (with lab) or CHM X045C or CHM X040/X041
- CHM X046/X046L General Chemistry II (with lab) or CHM X046C
- GLY X010C Introduction to Physical Geology or GLY X010/X010L
- MAC X311 Calculus I or MTH X281
- (PHY X048C General Physics and Laboratory I and PHY X049C) or (PHY X048/X048L and PHY X049/X049L) or (PHY X053C and PHY X054C)*
- XXX XXXX Historical Geology STRONGLY recommended

*The choice of Physics sequence depends on the area of Geology specialization.
REQUIREMENTS FOR THE MAJOR IN GEOLOGY

REQUIRED SUPPORTING COURSES FOR THE MAJOR: 25-27 HOURS

The following courses are prerequisite and supporting courses for this major. They are required for the major, but are not counted in the total hours for this major. The degree will not be awarded if these courses have not been taken by the end of the student’s final semester.

- CHM 2045 General Chemistry I and CHM 2045L General Chemistry I Laboratory
- CHM 2046 General Chemistry II and CHM 2046L General Chemistry II Laboratory
- STA 2023 Introductory Statistics I or STA 2122 Social Science Statistics
- MAC 2281 or MAC 2311 or MAC 2241 Calculus I
- GLY 3866 Computational Geology or MAC 2282 or MAC 2312
- PHY 2048/2048L General Physics I - Calculus Based with Lab and PHY 2049/2049L General Physics II - Calculus Based with Lab (recommended) or PHY 2053/2053L General Physics I and PHY 2054/2054L General Physics II
  - PHY 2060 may substitute for PHY 2048 and PHY 2061 may substitute for PHY 2049.

TOTAL MAJOR HOURS: 43

MAJOR REQUIREMENTS FOR THE B.S. DEGREE:

MAJOR CORE (29 HOURS)

The Geology B.S. degree requires 43 total credit hours of degree applicable Geology coursework comprising one introductory course (4 credit hours), six core courses (19 credit hours), the summer field capstone sequence (6 credit hours), and four upper-level electives (14 credit hours). To complete their elective requirements for Geology, students are encouraged to consider courses offered in Geography and Environmental Science and Policy.

- **Introductory Sequence** *(4 credit hours):*
  - One course, chosen from:
    - ESC 2000 Introduction to Earth Science
    - GLY 2010 Dynamic Earth: Introduction to Physical Geology
    - GLY 2030 Hazards of the Earth’s Surface: Environmental Geology
    - OCE 2001 Introduction to Oceanography
    - Or other comparable acceptable course offerings, as approved by the undergraduate advisor
  - GLY 2000L Essentials of Geology Laboratory

*Transfer students who have taken GLY 2010C 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.

- **Core Courses** *(19 hours):*
  - GEO 3280 Environmental Hydrology*
  - GLY 3104C Stratigraphy and Paleontology
  - GLY 3311C Mineralogy, Petrology, Geochemistry
  - GLY 3402C Structural Geology and Tectonics
  - GLY 3552C Sedimentary Record and Processes

*In the event that GEO 3280 is not offered in a calendar year, the Undergraduate Advisor may approve GLY 4822C Hydrogeology to count in its place.
Capstone Sequence (6 credit hours):

- The Geology major's culminating experience capstone is six (6) credit hours of summer field camp broken into three courses of GLY 4948 and GLY 4949, each taught in two-week increments.
  - GLY 4948 Practical and Applied Geology: Field Experience (multiple sections and topics offered)
  - GLY 4949 Practical and Applied Geology: Field Mapping (multiple sections and topics offered)
- Field Mapping Requirement: Within the major capstone sequence, at least two (2) hours must be drawn from courses identified by the School of Geosciences as including a substantial field mapping content. Courses that meet this requirement include: Field Geologic Mapping and Field Volcanology. Other field courses may be approved for the field mapping requirement by the Undergraduate Advisor.
- Note: The above Geology major capstone courses do not meet the University's FKL Capstone Experience requirement.

MAJOR ELECTIVES (14 HOURS)

- Students will take 14 credit hours from the following list of courses:
  - EVR 4027 Wetland Environments
  - EVR 4033 Environmental Regulation
  - EVR 4104 Karst Environments
  - GEO 4210 Process Geomorphology
  - GEO 4265 Soil Genesis and Classification
  - GEO 4284 Water Resources Management
  - GEO 4340 Natural Hazards
  - GIS 4043C Geographic Information Systems
  - GLY 4310 Petrology
  - GLY 4324C Physical Volcanology*
  - GLY 4480 Seismology*
  - GLY 4554C Sedimentary Environments
  - GLY 4720C Aqueous and Environmental Geochemistry
  - GLY 4822C Hydrogeology*
  - GLY 4780 Geological Field Studies
  - Other 3000- or 4000-level GLY courses, as approved by the undergraduate advisor

Quantitative Requirement: Of these upper-level electives, at least three (3) hours must be drawn from courses identified by the department as including high-quantitative content. Courses that meet this requirement are highlighted with *. Other comparable quantitative offerings in Geology may be approved by the undergraduate advisor.
Optional Geophysics Emphasis

Requirements for the Geology B.S. Major with the optional Geophysics emphasis:
The Geophysics Track in Geology indicates advanced mathematics training and requires the following courses:

- MAC 2282 Engineering Calculus II (recommended) or MAC 2312 Calculus II (instead of GLY 3866)
- MAC 2313 Calculus III

These courses may count towards no more than four (4) credit hours of the 14 elective credit hours required for the B.S. in Geology.

RESEARCH OPPORTUNITIES

All undergraduate students in any degree program can participate in undergraduate research. There are a number of options to receive academic credit for a mentored research experience and to have the experience show on the official transcript. Students who wish to enroll in an undergraduate research course should consult with their academic advisor to understand how the credit will apply towards the degree requirements. If no credit is needed, students may be eligible to enroll in the 0-credit IDS 2912, IDS 4914 or IDH 4910 courses. These courses will not impact degree credits or GPA but will show on an official transcript and document the experience. The Office of Undergraduate Research will assist students in understanding the various course options.

OPTIONAL HONORS PROGRAM

The purpose of the Honors Program is to provide a select group of undergraduate Geology majors an opportunity to undertake an intensive, individualized research experience. The culmination of the program is the completion and presentation of an honors thesis. To apply, interested students should contact the Geology undergraduate advisor during the second semester of the student's junior year. Admission to the program requires a GPA of 3.50 in the major and an overall GPA of 3.2.

GEOLOGY FACULTY


B.A. - GEOLOGY (GLY)
(CIP = 40.0601 - TRACK 1 OF 2)
TOTAL DEGREE HOURS: 120

http://hennarot.forest.usf.edu/main/depts/geosci/

The Bachelor of Arts program is designed primarily for the liberal arts student who has an interest in careers in Geoscience education or environmental policy and law. A student who elects the B.A. program and decides to pursue the geology profession or attend graduate school will need at least field geology in his/her program.

STATE MANDATED COMMON COURSE PREREQUISITES

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 General Education 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.

Transfer students are also required to comply with the immunization, foreign language, and continuous enrollment policies of the university.
Students should complete the following prerequisite courses 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 in prerequisite courses.

- CHM X045/X045L General Chemistry I (with lab) or CHM X045C or CHM X040/X041
- CHM X046/X046L General Chemistry II (with lab) or CHM X046C
- GLY X010C Introduction to Physical Geology or GLY X010/X010L
- MAC X311 Calculus I or MTH X281
- (PHY X048C General Physics and Laboratory I and PHY X049C) or (PHY X048/X048L and PHY X049/X049L) or (PHY X053C and PHY X054C)*  
- XXX XXXX Historical Geology STRONGLY recommended

*The choice of Physics sequence depends on the area of Geology specialization.

REQUIREMENTS FOR THE MAJOR IN GEOLOGY

REQUIRED SUPPORTING COURSES FOR THE MAJOR: 22-23 HOURS

The following courses are prerequisite and supporting courses for this major. They are required for the major, but are not counted in the total hours for this major. The degree will not be awarded if these courses have not been taken by the end of the student's final semester.

- CHM 2045 General Chemistry I and CHM 2045L General Chemistry I Laboratory
- CHM 2046 General Chemistry II and CHM 2046L General Chemistry II Laboratory
- MAC 2311 Calculus I or MAC 2241 Life Science Calculus I
- STA 2023 Introductory Statistics I
- PHY 2048/2048L General Physics I - Calculus Based with Lab and PHY 2049/2049L General Physics II - Calculus Based with Lab (recommended) or PHY 2053/2053L General Physics I with Lab and PHY 2054/2054L General Physics II with Lab
  - PHY 2060 may substitute for PHY 2048 and PHY 2061 may substitute for PHY 2049.

TOTAL MAJOR HOURS: 34

MAJOR REQUIREMENTS FOR THE B.A. DEGREE:

MAJOR CORE (19 HOURS)

The B.A. in Geology degree requires 34 total credit hours of degree-applicable Geology coursework, comprising one introductory course (4 credit hours), four core courses (15 credit hours), and four upper-level electives (15 credit hours).

*Transfer students who have taken GLY 2010C 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.
• Introductory Sequence* (4 credit hours):
  o One course, chosen from:
    ▪ ESC 2000 Introduction to Earth Science
    ▪ GLY 2010 Dynamic Earth: Introduction to Physical Geology
    ▪ GLY 2030 Hazards of the Earth’s Surface: Environmental Geology
    ▪ OCE 2001 Introduction to Oceanography
    ▪ Or other comparable acceptable course offerings, as approved by the undergraduate advisor
  o GLY 2000L Essentials of Geology Laboratory

• Core Courses (15 credit hours):
  o GEO 3280 Environmental Hydrology
  o GLY 3311C Mineralogy, Petrology, Geochemistry
  o GLY 3402C Structural Geology and Tectonics
  o GLY 3552C Sedimentary Rocks and Processes

In the event that GEO 3280 is not offered in a calendar year, the undergraduate advisor may approve GLY 4822C Hydrogeology to count in its place.

MAJOR ELECTIVES (15 HOURS)

Students choose 15 hours of upper-level electives from the following list of courses:

• EVR 4027 Wetland Environments
• EVR 4033 Environmental Regulation
• EVR 4104 Karst Environments
• GEO 4210 Process Geomorphology
• GEO 4265 Soil Genesis and Classification
• GEO 4284 Water Resources Management
• GEO 4340 Natural Hazards
• GIS 4043C Geographic Information Systems
• GLY 3866 Computational Geology
• GLY 4310 Petrology
• GLY 4324C Physical Volcanology*
• GLY 4480 Seismology*
• GLY 4554C Sedimentary Environments
• GLY 4720C Aqueous and Environmental Geochemistry*
• GLY 4780 Geological Field Studies
• GLY 4822C Hydrogeology*
• GLY 4921 Scientific Communication
• GLY 4948 Practical and Applied Geology: Field Experience
• Other 3000- or 4000-level GLY course, as approved by the undergraduate advisor
Quantitative Requirement: Of these upper-level electives, at least three (3) hours must be drawn from courses identified by the department as including high-quantitative content. Courses that meet this requirement are highlighted with a *. Other comparable quantitative offerings in geology may be approved by the undergraduate advisor.

RESEARCH OPPORTUNITIES

All undergraduate students in any degree program can participate in undergraduate research. There are a number of options to receive academic credit for a mentored research experience and to have the experience show on the official transcript. Students who wish to enroll in an undergraduate research course should consult with their academic advisor to understand how the credit will apply towards the degree requirements. If no credit is needed, students may be eligible to enroll in the 0-credit IDS 2912, IDS 4914 or IDH 4910 courses. These courses will not impact degree credits or GPA but will show on an official transcript and document the experience. The Office of Undergraduate Research will assist students in understanding the various course options.

GEOLOGY FACULTY


B.S. - HEALTH SCIENCES (HLS)

(CIP = 51.0000)
TOTAL DEGREE HOURS: 120

http://spa.usf.edu/undergraduate/health/

This degree program is designed for those interested in health science, the health care industry and the allied health professions. The degree has a flexible curriculum so students can choose an area of specialization to suit their career interests. Career choices after graduation include working in health related nonprofit organizations, governmental and community agencies, medical records, patient education, geriatric care settings, diagnostic laboratories, hospitals, the pharmaceutical industry, medical and wellness facilities and businesses. Students graduating with this degree may enter the workforce or continue their education in a variety of fields that might include advanced degree programs in Health Management, Physical or Occupational Therapy, Physician Assistant, Health Administration, Healthcare Informatics, Communication Disorders and Social Work to name a few. (This degree has greater flexibility and students may have more exposure to social science, business and humanities courses than the more natural science and mathematics intensive degrees sometimes required for the professional schools in medicine, dentistry, pharmacy or veterinary medicine; for these see the health professions section in this catalog).

STATE MANDATED COMMON COURSE PREREQUISITES

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 General Education 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.

Transfer students are also required to comply with the immunization, foreign language, and continuous enrollment policies of the university.
Students should complete the following prerequisite courses 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.

- BSC XXXXC or BSC X007/X007L or BSC X005/X005L or BSC X010/X010L
- MAC X105
- PSY X012
- STA XXXX 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 or BSC X094
- ENC X210 or ENC X254

REQUIREMENTS FOR THE MAJOR IN HEALTH SCIENCES

TOTAL MAJOR HOURS: 34

MAJOR REQUIREMENTS FOR THE B.S. DEGREE:

MAJOR CORE (34 HOURS)

- BSC 1020 The Biology of Humans or BSC 1005 Biological Principles for Non-Majors or BSC 2010 and BSC 2010L Biology I: Cellular Processes and Laboratory
- BSC 2085 and BSC 2085L Anatomy and Physiology I for Health Professionals and Lab or BSC 2093C Human Anatomy and Physiology I and BSC 2094C Human Anatomy and Physiology II
- CLT 3040 Scientific and Medical Terminology
- DEP 2004 The Life Cycle
- ENC 2210 Technical Writing
- HSC 2000 Introduction to Health Professions
- MAC 1105 College Algebra
- PHI 3633 Biomedical Ethics or PHI 3636 Professional Ethics
- PSY 2012 Introduction to Psychological Science
- STA 2023 Introductory Statistics I
- Choose one of the following courses:
  - ACG 2021 Principles of Financial Accounting
  - ANT 2511 Biological Anthropology
  - COM 2000 Introduction to Communication
  - GEY 2000 Introduction to Aging Sciences
  - SYG 2000 Introduction to Sociology

RESIDENCY REQUIREMENT

A minimum of 20 credit hours of courses must be taken in residency at USF Tampa and be applicable to the major.

RESEARCH OPPORTUNITIES

A maximum of 4 credits of Undergraduate Research (IDS 4910) may be applied to the major with a maximum of 1 credit taken per semester.
The Health Sciences program has competitive internships available for students in various health fields such as health informatics, administration, marketing, sales, health care centers and government to name a few. Students must take Career Development for Health Professionals (IDS 4937) or participate in the Health Sciences Career Development Workshop Series prior to applying for the internships. Placement applications and information are available upon completion of the course or workshops. Students can find more information about the course and workshops on the Health Science Majors Canvas site. Internships are restricted to health sciences majors only and a permit is required for registration. Please email hhsadvise@usf.edu for a permit. Internship course credit (3-6 hours) may be applied to any concentration in the major.

OTHER INFORMATION

Additional Concentration Options/Combinations:

- Concentration in Aging Health Studies
- Concentration in Aging Health Studies and Health Information Technology
- Concentration in Aging Health Studies and Health Management
- Concentration in Biological Health Sciences
- Concentration in Biological Health Sciences and Aging Health Studies
- Concentration in Biological Health Sciences and Health Information Technology
- Concentration in Biological Health Sciences and Health Management
- Concentration in Biological Health Sciences and Social and Behavioral Health Sciences
- Concentration in Health Information Technology
- Concentration in Health Management
- Concentration in Health Management and Health Information Technology
- Concentration in Social and Behavioral Health Sciences
- Concentration in Social and Behavioral Health Sciences and Aging Health Studies
- Concentration in Social and Behavioral Health Sciences and Health Information Technology
- Concentration in Social and Behavioral Health Sciences and Health Management

ADVISING INFORMATION

School of Information
hhsadvise@usf.edu

HEALTH SCIENCES FACULTY

Program Director and Instructor: C. Cooperman
AGING HEALTH STUDIES (HAH) CONCENTRATION
(CIP = 51.0000)
http://www.spa.usf.edu/undergraduate/health/

REQUIREMENTS FOR THE CONCENTRATION IN AGING HEALTH STUDIES

TOTAL CONCENTRATION HOURS: 64

CONCENTRATION CORE (30 HOURS)

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.

- BSC 3022 Biology of Aging
- GEY 3601 Physical Changes and Aging
- GEY 4322 Care Management for Older Adults
- GEY 4360 Counseling for Older Adults
- GEY 4507 Understanding Policies and Practices of Long Term Care
- GEY 4608 Alzheimer's Disease Management
- GEY 4628 Health, Ethnicity, and Aging
- GEY 4641 Death and Dying
- GEY 4935 Special Topics in Gerontology*
- HSC 4211 Health, Behavior & Society
- HSC 4630 Understanding U.S. Healthcare
- LIS 4930 Selected Topics in Information Studies*
- MHS 4931 Selected Topics*
- PAD 4930 Special Topics in Public Administration and Public Policy*
- PHC 4931 Health Care Ethics
- SOW 3210 The American Social Welfare System
- SPA 3002 Introduction to Communication Sciences and Disorders
- SPA 4257 Adult Communication Disorders

*See Health Sciences Advisor for approval.

AGING HEALTH STUDIES AND HEALTH MANAGEMENT (HAM) CONCENTRATION

REQUIREMENTS FOR THE CONCENTRATION IN AGING HEALTH STUDIES AND HEALTH MANAGEMENT

TOTAL CONCENTRATION HOURS: 64

CONCENTRATION CORE (30 HOURS)

Aging Health Studies courses (students must take 15 hours from this list):

- BSC 3022 Biology of Aging
- GEY 3601 Physical Changes and Aging
• GEY 4322 Care Management for Older Adults
• GEY 4360 Counseling for Older Adults
• GEY 4507 Understanding Policies and Practices in Long Term Care
• GEY 4608 Alzheimer's Disease Management
• GEY 4628 Health, Ethnicity, and Aging
• GEY 4641 Death and Dying
• GEY 4935 Special Topics in Gerontology*
• HSC 4211 Health, Behavior & Society
• HSC 4630 Understanding U.S. Healthcare
• LIS 4930 Selected Topics in Information Studies*
• MHS 4931 Selected Topics*
• PAD 4930 Selected Topics in Public Administration and Public Policy*
• PHC 4931 Health Care Ethics
• SOW 3210 The American Social Welfare System
• SPA 3002 Introduction to Communication Sciences and Disorders
• SPA 4257 Adult Communication Disorders

Health Management courses (students must take 15 hours from this list):
• ACG 2071 Principles of Managerial Accounting
• GEY 4635 Business Management in an Aging Society
• HSC 4211 Health, Behavior & Society
• HSC 4624 Foundations of Global Health
• HSC 4630 Understanding U.S. Health Care
• HSC 4631 Critical Issues in Public Health
• HSC 4933 Special Topics in Public Health*
• LIS 4930 Selected Topics in Information Studies*
• MAN 3025 Principles of Management
• MMC 4936 Selected Topics in Health Communications and Media*
• PAD 3003 Introduction to Public Administration
• PAD 4204 Public Financial Administration
• PAD 4415 Personnel and Supervision in Today's Diverse Organizations
• PAD 4712 Managing Information Resources in the Public Sector
• PAD 4930 Selected Topics in Public Administration and Public Policy*
• PHC 4101 Overview of Public Health Programs and Policies
• PHC 4931 Health Care Ethics
• PHI 3636 Professional Ethics (course can be applied to tier one or concentration not both)
• PUP 4002 Public Policy
• SYO 4400 Medical Sociology
Two SPC, MMC and/or COM courses may apply to this concentration:

- SPC 3710 Communication and Cultural Diversity
- SPC 4930 Selected Topics
  - Patient Provider Communication
  - Intercultural Health Communication

*See Health Sciences Advisor for approval.

**BIOLOGICAL HEALTH SCIENCES AND AGING HEALTH STUDIES (HBA) CONCENTRATION**

**REQUIREMENTS FOR THE CONCENTRATION IN BIOLOGICAL HEALTH SCIENCES AND AGING HEALTH STUDIES**

**TOTAL CONCENTRATION HOURS: 64**

**CONCENTRATION CORE (30 HOURS)**

Biological Health Sciences courses (students must take 15 hours from this list):

- ANT 4462 Health, Illness, and Culture
- ANT 4520C Forensic Anthropology
- APK 3120 Exercise Physiology
- BSC 3022 Biology of Aging
- BSC 4933 Selected Topics in Biology*
- CHM 2023 Chemistry for Today
- CHM 2045 General Chemistry I and CHM 2045L General Chemistry I Laboratory
- CHM 2046 General Chemistry II and CHM 2046L General Chemistry II Laboratory
- GEY 3601 Physical Changes and Aging
- HSC 3541 Human Structure and Function
- HSC 4430 Occupational Health and Safety
- HSC 4504 Foundations of Public Health Immunology
- HSC 4551 Survey of Human Diseases
- HSC 4573 Foundations of Food Safety
- HSC 4624 Foundations of Global Health
- HSC 4933 Special Topics in Public Health*
- HUN 3272 Sports Nutrition
- HUN 3296 Nutrition and Disease
- LIS 4785 Introduction to Health Informatics
- LIS 4930 Selected Topics in Information Studies*
- MCB 3020 General Microbiology
- MCB 3020L General Microbiology Laboratory
- PCB 3063 General Genetics
- PCB 3063L General Genetics Laboratory
- PHC 3302 Introduction to Environmental & Occupational Health
- PHC 3320 Environmental Health Science
- PHC 4030 Introduction to Epidemiology
- PHC 4101 Overview of Public Health Programs and Policies
- PHY 2020 Conceptual Physics or PHY 2053/PHY 2053L General Physics I with Lab
- PHY 2054/PHY 2054L General Physics II with Lab
- SPC 4930 Selected Topics in Communication*
- ZOO 4512 Sociobiology

**Communication Sciences & Disorders Cluster** (These courses are recommended for students interested in pursuing graduate degrees in communication sciences)
- SPA 3002 Introduction to Communication Sciences and Disorders
- SPA 3004 Introduction to Language Development and Disorders
- SPA 3030 Introduction to Hearing Science
- SPA 3101 Anatomy and Physiology of the Speech & Hearing Mechanism
- SPA 4104 Neuroanatomy of Speech, Language & Hearing

**Aging Health Studies courses (students must take 15 hours from this list):**
- BSC 3022 Biology of Aging
- GEY 3601 Physical Changes and Aging
- GEY 4322 Care Management for Older Adults
- GEY 4360 Counseling for Older Adults
- GEY 4507 Understanding Policies and Practices of Long Term Care
- GEY 4608 Alzheimer's Disease Management
- GEY 4628 Health, Ethnicity, and Aging
- GEY 4641 Death and Dying
- GEY 4935 Special Topics in Gerontology*
- HSC 4211 Health, Behavior & Society
- HSC 4630 Understanding U.S. Healthcare
- LIS 4930 Selected Topics in Information Studies*
- MHS 4931 Selected Topics*
- PAD 4930 Selected Topics in Public Administration and Public Policy*
- PHC 4931 Health Care Ethics
- SOW 3210 The American Social Welfare System
- SPA 3002 Introduction to Communication Sciences and Disorders
- SPA 4257 Adult Communication Disorders

*See Health Sciences Advisor for approval.
BIOLOGICAL HEALTH SCIENCES (HBH) CONCENTRATION
(CIP = 51.0000)

REQUIREMENTS FOR THE CONCENTRATION IN BIOLOGICAL HEALTH SCIENCES

TOTAL CONCENTRATION HOURS: 64

CONCENTRATION CORE (30 HOURS)

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.

- ANT 4462 Health, Illness, and Culture
- ANT 4520C Forensic Anthropology
- APK 3120 Exercise Physiology
- BSC 3022 Biology of Aging
- BSC 4933 Selected Topics in Biology*
- CHM 2023 Chemistry for Today
- CHM 2045 General Chemistry I and CHM 2045L General Chemistry I Laboratory
- CHM 2046 General Chemistry II and CHM 2046L General Chemistry II Laboratory
- GEY 3601 Physical Changes and Aging
- HSC 4430 Occupational Health and Safety
- HSC 4504 Foundations of Public Health Immunology
- HSC 4551 Survey of Human Diseases
- HSC 4573 Foundations of Food Safety
- HSC 4624 Foundations of Global Health
- HSC 4933 Special Topics in Public Health*
- HUN 3272 Sports Nutrition
- HUN 3296 Nutrition and Disease
- LIS 4785 Introduction to Health Informatics
- LIS 4930 Selected Topics in Information Studies*
- MCB 3020 General Microbiology
- MCB 3020L General Microbiology Laboratory
- PCB 3063 General Genetics
- PCB 3063L General Genetics Laboratory
- PHC 3302 Introduction to Environmental & Occupational Health
- PHC 3320 Environmental Health Science
- PHC 4030 Introduction to Epidemiology
- PHC 4101 Overview of Public Health Programs and Policies
- PHY 2020 Conceptual Physics or PHY 2053/PHY 2053L General Physics I with Lab
• PHY 2054/PHY 2054L General Physics II with Lab
• SPC 4930 Selected Topics in Communication*
• ZOO 4512 Sociobiology

Communication Sciences & Disorders Cluster (These courses are recommended for students interested in pursuing graduate degrees in communication sciences)

• SPA 3002 Introduction to Communication Sciences and Disorders
• SPA 3004 Introduction to Language Development and Disorders
• SPA 3030 Introduction to Hearing Science
• SPA 3101 Anatomy and Physiology of the Speech & Hearing Mechanism
• SPA 4104 Neuroanatomy of Speech, Language & Hearing

*See Health Sciences Advisor for approval.

BIOLOGICAL HEALTH SCIENCES AND HEALTH INFORMATION TECHNOLOGY (HBI) CONCENTRATION

REQUIREMENTS FOR THE CONCENTRATION IN BIOLOGICAL HEALTH SCIENCES AND HEALTH INFORMATION TECHNOLOGY

TOTAL CONCENTRATION HOURS: 64

CONCENTRATION CORE (30 HOURS)

Biological Health Sciences courses (students must take 15 hours from this list):

• ANT 4462 Health, Illness, and Culture
• ANT 4520C Forensic Anthropology
• APK 3120 Exercise Physiology
• BSC 3022 Biology of Aging
• BSC 4933 Selected Topics in Biology*
• CHM 2023 Chemistry for Today
• CHM 2045 General Chemistry I and CHM 2045L General Chemistry I Laboratory
• CHM 2046 General Chemistry II and CHM 2046L General Chemistry II Laboratory
• GEY 3601 Physical Changes and Aging
• HSC 4430 Occupational Health and Safety
• HSC 4504 Foundations of Public Health Immunology
• HSC 4551 Survey of Human Diseases
• HSC 4573 Foundations of Food Safety
• HSC 4624 Foundations of Global Health
• HSC 4933 Special Topics in Public Health*
• HUN 3272 Sports Nutrition
• HUN 3296 Nutrition and Disease
• LIS 4785 Introduction to Health Informatics
• LIS 4930 Selected Topics in Information Studies*
• MCB 3020 General Microbiology
• MCB 3020L General Microbiology Laboratory
• PCB 3063 General Genetics
• PCB 3063L General Genetics Laboratory
• PHC 3302 Introduction to Environmental & Occupational Health
• PHC 3320 Environmental Health Science
• PHC 4030 Introduction to Epidemiology
• PHC 4101 Overview of Public Health Programs and Policies
• PHY 2020 Conceptual Physics or PHY 2053/PHY 2053L General Physics I with Lab
• PHY 2054/PHY 2054L General Physics II with Lab
• SPC 4930 Selected Topics in Communication*
• ZOO 4512 Sociobiology

Communication Sciences & Disorders Cluster (courses recommended for students interested in pursuing graduate degrees in communication sciences)

• SPA 3002 Introduction to Communication Sciences and Disorders
• SPA 3004 Introduction to Language Development and Disorders
• SPA 3030 Introduction to Hearing Science
• SPA 3101 Anatomy and Physiology of the Speech & Hearing Mechanism
• SPA 4104 Neuroanatomy of Speech, Language & Hearing

Health Information Technology courses (students must take 15 hours from this list):

• ISM 3113 Systems Analysis and Design
• LIS 3261 Introduction to Information Science
• LIS 3352 Interaction Design
• LIS 3353 IT Concepts for Information Professionals
• LIS 3361 World Wide Web Page Design and Management
• LIS 3783 Information Architecture
• LIS 4204 Information Behaviors
• LIS 4365 Web Design Technologies
• LIS 4380 Information and Social Media
• LIS 4414 Information Policy and Ethics
• LIS 4477 Clinical Decision Support
• LIS 4482 Networks and Communication
• LIS 4776 Health Information Technology
• LIS 4779 Health Information Security
BIOLOGICAL HEALTH SCIENCES AND HEALTH MANAGEMENT (HBM) CONCENTRATION

REQUIREMENTS FOR THE CONCENTRATION IN BIOLOGICAL HEALTH SCIENCES AND HEALTH MANAGEMENT

TOTAL CONCENTRATION HOURS: 64

CONCENTRATION CORE (30 HOURS)

Biological Health Sciences courses (students must take 15 hours from this list):

- ANT 4462 Health, Illness, and Culture
- ANT 4520C Forensic Anthropology
- APK 3120 Exercise Physiology
- BSC 3022 Biology of Aging
- BSC 4933 Selected Topics in Biology*
- CHM 2023 Chemistry for Today
- CHM 2045 General Chemistry I and CHM 2045L General Chemistry I Laboratory
- CHM 2046 General Chemistry II and CHM 2046L General Chemistry II Laboratory
- GEY 3601 Physical Changes and Aging
- 
- HSC 4430 Occupational Health and Safety
- HSC 4504 Foundations of Public Health Immunology
- HSC 4551 Survey of Human Diseases
- HSC 4573 Foundations of Food Safety
- HSC 4624 Foundations of Global Health
- HSC 4933 Special Topics in Public Health*
- HUN 3272 Sports Nutrition
- HUN 3296 Nutrition and Disease
- LIS 4785 Introduction to Health Informatics
- LIS 4930 Selected Topics in Information Studies*
- MCB 3020 General Microbiology
- MCB 3020L General Microbiology Laboratory
- PCB 3063 General Genetics
- PCB 3063L General Genetics Laboratory
Communication Sciences & Disorders Cluster (courses recommended for students interested in pursuing graduate degrees in communication sciences)

- SPA 3002 Introduction to Communication Sciences and Disorders
- SPA 3004 Introduction to Language Development and Disorders
- SPA 3030 Introduction to Hearing Science
- SPA 3101 Anatomy and Physiology of the Speech and Hearing Mechanism
- SPA 4104 Neuroanatomy of Speech, Language and Hearing

Health Management courses (students must take 15 hours from this list):

- ACG 2071 Principles of Managerial Accounting
- GEY 4635 Business Management in an Aging Society
- HSC 4211 Health, Behavior & Society
- HSC 4624 Foundations of Global Health
- HSC 4630 Understanding U.S. Health Care
- HSC 4631 Critical Issues in Public Health
- HSC 4933 Special Topics in Public Health*
- LIS 4930 Selected Topics in Information Studies*
- MAN 3025 Principles of Management
- MMC 4936 Selected Topics in Health Communications and Media*
- PAD 3003 Introduction to Public Administration
- PAD 4204 Public Financial Administration
- PAD 4415 Personnel and Supervision in Today's Diverse Organizations
- PAD 4712 Managing Information Resources in the Public Sector
- PAD 4930 Selected Topics in Public Administration and Public Policy*
- PHC 4101 Overview of Public Health Programs and Policies
- PHC 4931 Health Care Ethics
- PHI 3636 Professional Ethics (course can be applied to tier one or concentration not both)
- PUP 4002 Public Policy
- SYO 4400 Medical Sociology
Two SPC, MMC and/or COM course may apply to this concentration

- SPC 3710 Communication and Cultural Diversity
- SPC 4930 Selected Topics
  - Patient Provider Communication
  - Intercultural Health Communication

*See Health Sciences Advisor for approval.

**SOCIAL AND BEHAVIORAL HEALTH SCIENCES (HBS) CONCENTRATION**

(CIP = 51.0000)

**REQUIREMENTS FOR THE CONCENTRATION IN SOCIAL AND BEHAVIORAL HEALTH SCIENCES**

**TOTAL CONCENTRATION HOURS: 64**

**CONCENTRATION CORE (30 HOURS)**

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.

- CLP 4143 Abnormal Psychology
- COM 4020 Communicating Illness, Grief and Loss
- COM 4021 Family Communication and the End of Life
- COM 4022 Health Communication
- COM 4225 Global and Cultural Issues in Health Communication
- COM 4702 Communication, Language, and Mental Illness
- HSC 4172 Women's Health: A Public Health Perspective
- HSC 4211 Health, Behavior and Society
- HSC 4579 Foundations of Maternal and Child Health
- HSC 4631 Critical Issues in Public Health
- HSC 4933 Special Topics in Public Health*
- LIS 4776 Health Information Technology
- LIS 4930 Selected Topics in Information Studies*
- MHS 4022 Adult Psychopathology in the Community
- MHS 4452 Co-Occurring Disorders
- MHS 4490 Behavioral Healthcare Issues for Children
- PAD 4930 Special Topics in Public Administration and Public Policy*
- PHI 4930 Selected Topics*
- SOP 4330 Social Psychology of HIV/AIDS
- SOW 3102 Human Behavior and the Social Environment II
- SOW 3203 Introduction to Social Work
- SOW 3210 The American Social Welfare System
- SPC 4305 Communicating Emotions
- SPC 4321 Communication and Aging
- SPC 4930 Selected Topics in Communication*
- SYO 4400 Medical Sociology
- WST 4320 Politics and Issues in Women's Health

**Mental Health Cluster (courses for students interested in mental health professions)**

- MHS 3411 Multidisciplinary Behavioral Healthcare Services
- MHS 4002 Behavioral Health Systems Delivery
- MHS 4408 Exemplary Practices in Behavioral Healthcare Treatment
- MHS 4703 Legal, Ethical and Professional Issues in Behavioral Healthcare
- MHS 4931 Selected Topics*

**Substance Abuse Cluster (courses for students interested in substance abuse counseling and treatment professions)**

- MHS 3411 Multidisciplinary Behavioral Healthcare Services
- MHS 4408 Exemplary Practices in Behavioral Healthcare Treatment
- MHS 4703 Legal, Ethical and Professional Issues in BHC
- MHS 4931 Selected Topics*
- PSB 3444 Drugs and Behavior

*See Health Sciences Advisor for approval.

**HEALTH INFORMATION TECHNOLOGY (HHI) CONCENTRATION**

**(CIP = 51.0000)**

**REQUIREMENTS FOR THE CONCENTRATION IN HEALTH INFORMATION TECHNOLOGY**

**TOTAL CONCENTRATION HOURS: 64**

**CONCENTRATION CORE (30 HOURS)**

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.

- ISM 3113 Systems Analysis and Design
- LIS 3261 Introduction to Information Science
- LIS 3352 Interaction Design
- LIS 3353 IT Concepts for Information Professionals
- LIS 3361 World Wide Web Page Design and Management
- LIS 3783 Information Architecture
- LIS 4204 Information Behaviors
- LIS 4365 Web Design Technologies
- LIS 4380 Information and Social Media
- LIS 4414 Information Policy and Ethics
## HEALTH MANAGEMENT (HHM) CONCENTRATION  
(CIP = 51.0000)

### REQUIREMENTS FOR THE CONCENTRATION IN HEALTH MANAGEMENT

**TOTAL CONCENTRATION HOURS: 64**

#### CONCENTRATION CORE (30 HOURS)

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.

- ACG 2071 Principles of Managerial Accounting
- GEY 4635 Business Management in an Aging Society
- HSC 4211 Health, Behavior & Society
- HSC 4624 Foundations of Global Health
- HSC 4630 Understanding U.S. Health Care
- HSC 4631 Critical Issues in Public Health
- HSC 4933 Special Topics in Public Health*
- LIS 4930 Selected Topics in Information Studies*
- MAN 3025 Principles of Management
- MMC 4936 Selected Topics in Health Communications and Media*
- PAD 3003 Introduction to Public Administration
- PAD 4204 Public Financial Administration
- PAD 4415 Personnel and Supervision in Today's Diverse Organizations
- PAD 4712 Managing Information Resources in the Public Sector
- PAD 4930 Selected Topics in Public Administration and Public Policy*
- PHC 4101 Overview of Public Health Programs and Policies
- PHC 4931 Health Care Ethics
- PHI 3636 Professional Ethics (course can be applied to tier one or concentration not both)
- PUP 4002 Public Policy
- SYO 4400 Medical Sociology

*See Health Sciences Advisor for approval.*
Two SPC, MMC and/or COM courses may apply to this concentration:

- SPC 3710 Communication and Cultural Diversity
- SPC 4930 Selected Topics
  - Patient Provider Communication
  - Intercultural Health Communication

*See Health Sciences Advisor for approval.

### AGING HEALTH STUDIES AND HEALTH INFORMATION TECHNOLOGY (HIT) CONCENTRATION

#### REQUIREMENTS FOR THE CONCENTRATION IN AGING HEALTH STUDIES AND HEALTH INFORMATION TECHNOLOGY

**TOTAL CONCENTRATION HOURS: 64**

#### CONCENTRATION CORE (30 HOURS)

Aging Health Studies courses (students must take 15 hours from this list):

- BSC 3022 Biology of Aging
- GEY 3601 Physical Changes and Aging
- GEY 4322 Care Management for Older Adults
- GEY 4360 Counseling for Older Adults
- GEY 4507 Understanding Policies and Practices of Long Term Care
- GEY 4608 Alzheimer's Disease Management
- GEY 4628 Health, Ethnicity, and Aging
- GEY 4641 Death and Dying
- GEY 4935 Special Topics in Gerontology*
- HSC 4211 Health, Behavior & Society
- HSC 4630 Understanding U.S. Healthcare
- LIS 4930 Selected Topics in Information Studies*
- MHS 4931 Selected Topics*
- PAD 4930 Selected Topics in Public Administration and Public Policy*
- PHC 4931 Health Care Ethics
- SOW 3210 The American Social Welfare System
- SPA 3002 Introduction to Communication Sciences and Disorders
- SPA 4257 Adult Communication Disorders

Health Information Technology courses (students must take 15 hours from this list):

- ISM 3113 Systems Analysis and Design
- LIS 3261 Introduction to Information Science
- LIS 3352 Interaction Design
- LIS 3353 IT Concepts for Information Professionals
• LIS 3361 World Wide Web Page Design and Management
• LIS 3783 Information Architecture
• LIS 4204 Information Behaviors
• LIS 4365 Web Design Technologies
• LIS 4380 Information and Social Media
• LIS 4414 Information Policy and Ethics
• LIS 4477 Clinical Decision Support
• LIS 4482 Networks and Communication
• LIS 4776 Health Information Technology
• LIS 4779 Health Information Security
• LIS 4785 Introduction to Health Informatics
• LIS 4930 Selected Topics in Information Studies*
• PAD 4712 Managing Information Resources in the Public Sector
• SPC 4930 Selected Topics: Online Communication

*See Health Sciences Advisor for approval.

SOCIAL AND BEHAVIORAL HEALTH SCIENCES AND HEALTH MANAGEMENT (HMG) CONCENTRATION

REQUIREMENTS FOR THE CONCENTRATION IN SOCIAL AND BEHAVIORAL HEALTH SCIENCES AND HEALTH MANAGEMENT

TOTAL CONCENTRATION HOURS: 64

CONCENTRATION CORE (30 HOURS)

Social and Behavioral Health Sciences courses (students must take 15 hours from this list):

• CLP 4143 Abnormal Psychology
• COM 4020 Communicating Illness, Grief and Loss
• COM 4021 Family Communication and the End of Life
• COM 4022 Health Communication
• COM 4225 Global and Cultural Issues in Health Communication
• COM 4702 Communication, Language, and Mental Illness
• HSC 4172 Women's Health: A Public Health Perspective
• HSC 4211 Health, Behavior and Society
• HSC 4579 Foundations of Maternal and Child Health
• HSC 4631 Critical Issues in Public Health
• HSC 4933 Special Topics in Public Health*
• LIS 4930 Selected Topics in Information Studies*
• MHS 4022 Adult Psychopathology in the Community
• MHS 4452 Co-Occurring Disorders
- MHS 4490 Behavioral Healthcare Issues for Children
- PAD 4930 Selected Topics in Public Administration and Public Policy*
- PHI 4930 Selected Topics*
- SOP 4330 Social Psychology of HIV/AIDS
- SOW 3102 Human Behavior and the Social Environment II
- SOW 3203 Introduction to Social Work
- SOW 3210 The American Social Welfare System
- SPC 4305 Communicating Emotions
- SPC 4321 Communication and Aging
- SPC 4930 Selected Topics in Communication*
- SYO 4400 Medical Sociology
- WST 4320 Politics and Issues in Women's Health

**Mental Health Cluster (courses for students interested in mental health professions)**

- MHS 3411 Multidisciplinary Behavioral Healthcare Services
- MHS 4002 Behavioral Health Systems Delivery
- MHS 4408 Exemplary Practices in Behavioral Healthcare Treatment
- MHS 4703 Legal, Ethical and Professional Issues in BHC
- MHS 4931 Selected Topics*

**Substance Abuse Cluster (courses for students interested in substance abuse counseling and treatment professions)**

- MHS 3411 Multidisciplinary Behavioral Healthcare Services
- MHS 4408 Exemplary Practices in Behavioral Healthcare Treatment
- MHS 4703 Legal, Ethical and Professional Issues in BHC
- MHS 4931 Selected Topics*
- PSB 3444 Drugs and Behavior

**Health Management courses (students must take 15 hours from this list):**

- ACG 2071 Principles of Managerial Accounting
- GEY 4635 Business Management in an Aging Society
- HSC 4211 Health, Behavior & Society
- HSC 4624 Foundations of Global Health
- HSC 4630 Understanding U.S. Health Care
- HSC 4631 Critical Issues in Public Health
- HSC 4933 Special Topics in Public Health*
- LIS 4930 Selected Topics in Information Studies*
- MAN 3025 Principles of Management
- MMC 4936 Selected Topics in Health Communications and Media*
- PAD 3003 Introduction to Public Administration
- PAD 4204 Public Financial Administration
• PAD 4415 Personnel & Supervision in Today's Diverse Organizations
• PAD 4712 Managing Information Resources in the Public Sector
• PAD 4930 Selected Topics in Public Administration and Public Policy*
• PHC 4101 Overview of Public Health Programs and Policies
• PHC 4931 Health Care Ethics
• PHI 3636 Professional Ethics (course can be applied to tier one or concentration not both)
• PUP 4002 Public Policy
• SYO 4400 Medical Sociology

Two SPC, MMC and/or COM course may apply to this concentration:
• SPC 3710 Communication and Cultural Diversity
• SPC 4930 Selected Topics
  o Patient Provider Communication
  o Intercultural Health Communication

*See Health Sciences Advisor for approval.

HEALTH MANAGEMENT AND HEALTH INFORMATION TECHNOLOGY (HMT) CONCENTRATION

REQUIREMENTS FOR THE CONCENTRATION IN HEALTH MANAGEMENT AND HEALTH INFORMATION TECHNOLOGY

TOTAL CONCENTRATION HOURS: 64

CONCENTRATION CORE (30 HOURS)

Health Management courses (students must take 15 hours from this list):
• ACG 2071 Principles of Managerial Accounting
• GEY 4635 Business Management in an Aging Society
• HSC 4211 Health, Behavior and Society
• HSC 4624 Foundations of Global Health
• HSC 4630 Understanding U.S. Health Care
• HSC 4631 Critical Issues in Public Health
• HSC 4933 Special Topics in Public Health*
• LIS 4930 Selected Topics in Information Studies*
• MAN 3025 Principles of Management
• MMC 4936 Selected Topics in Health Communications and Media*
• PAD 3003 Introduction to Public Administration
• PAD 4204 Public Financial Administration
• PAD 4415 Personnel & Supervision in Today's Diverse Organizations
• PAD 4712 Managing Information Resources in the Public Sector
• PAD 4930 Selected Topics in Public Administration and Public Policy*
• PHC 4101 Overview of Public Health Programs and Policies
• PHC 4931 Health Care Ethics
• PHI 3636 Professional Ethics (course can be applied to tier one or concentration not both)
• PUP 4002 Public Policy
• SYO 4400 Medical Sociology

Two SPC, MMC and/or COM course may apply to this concentration:

• SPC 3710 Communication and Cultural Diversity
• SPC 4930 Selected Topics
  o Patient Provider Communication
  o Intercultural Health Communication

Health Information Technology courses (students must take 15 hours from this list):

• ISM 3113 Systems Analysis and Design
• LIS 3261 Introduction to Information Science
• LIS 3352 Interaction Design
• LIS 3353 IT Concepts for Information Professionals
• LIS 3361 World Wide Web Page Design and Management
• LIS 3783 Information Architecture
• LIS 4204 Information Behaviors
• LIS 4365 Web Design Technologies
• LIS 4380 Information and Social Media
• LIS 4414 Information Policy and Ethics
• LIS 4477 Clinical Decision Support
• LIS 4482 Networks and Communication
• LIS 4776 Health Information Technology
• LIS 4779 Health Information Security
• LIS 4785 Introduction to Health Informatics
• LIS 4930 Selected Topics in Information Studies*
• PAD 4712 Managing Information Resources in the Public Sector
• SPC 4930 Selected Topics: Online Communication

*See Health Sciences Advisor for approval.
**SOCIAL AND BEHAVIORAL HEALTH SCIENCES AND AGING HEALTH STUDIES (HSA) CONCENTRATION**

**REQUIREMENTS FOR THE CONCENTRATION IN SOCIAL AND BEHAVIORAL HEALTH SCIENCES AND AGING HEALTH STUDIES**

**TOTAL CONCENTRATION HOURS: 64**

**CONCENTRATION CORE (30 HOURS)**

Social and Behavioral Health Sciences courses (students must take 15 hours from this list):

- CLP 4143 Abnormal Psychology
- COM 4020 Communicating Illness, Grief and Loss
- COM 4021 Family Communication and the End of Life
- COM 4022 Health Communication
- COM 4225 Global and Cultural Issues in Health Communication
- COM 4702 Communication, Language, and Mental Illness
- HSC 4172 Women's Health: A Public Health Perspective
- HSC 4211 Health, Behavior and Society
- HSC 4579 Foundations of Maternal and Child Health
- HSC 4631 Critical Issues in Public Health
- HSC 4933 Special Topics in Public Health*
- LIS 4776 Health Information Technology
- LIS 4930 Selected Topics in Information Studies*
- MHS 4022 Adult Psychopathology in the Community
- MHS 4452 Co-Occurring Disorders
- MHS 4490 Behavioral Healthcare Issues for Children
- PAD 4930 Selected Topics in Public Administration and Public Policy*
- PHI 4930 Selected Topics*
- SOP 4330 Social Psychology of HIV/AIDS
- SOW 3102 Human Behavior and the Social Environment II
- SOW 3203 Introduction to Social Work
- SOW 3210 The American Social Welfare System
- SPC 4305 Communicating Emotions
- SPC 4321 Communication and Aging
- SPC 4930 Selected Topics in Communication*
- SYO 4400 Medical Sociology
- WST 4320 Politics and Issues in Women's Health

*Mental Health Cluster (courses for students interested in mental health professions)*

- MHS 3411 Multidisciplinary Behavioral Healthcare Services
• MHS 4002 Behavioral Health Systems Delivery
• MHS 4408 Exemplary Practices in Behavioral Healthcare Treatment
• MHS 4703 Legal, Ethical and Professional Issues in Behavioral Healthcare
• MHS 4931 Selected Topics*

Substance Abuse Cluster (courses for students interested in substance abuse counseling and treatment professions)
• MHS 3411 Multidisciplinary Behavioral Healthcare Services
• MHS 4408 Exemplary Practices in Behavioral Healthcare Treatment
• MHS 4703 Legal, Ethical and Professional Issues in Behavioral Healthcare
• MHS 4931 Selected Topics*
• PSB 3444 Drugs and Behavior

Aging Health Studies courses (students must take 15 hours from this list):
• BSC 3022 Biology of Aging
• GEY 3601 Physical Changes and Aging
• GEY 4322 Care Management for Older Adults
• GEY 4360 Counseling for Older Adults
• GEY 4507 Understanding Policies and Practices of Long Term Care
• GEY 4608 Alzheimer's Disease Management
• GEY 4628 Health, Ethnicity, and Aging
• GEY 4641 Death and Dying
• GEY 4935 Special Topics in Gerontology*
• HSC 4211 Health, Behavior & Society
• HSC 4630 Understanding U.S. Healthcare
• LIS 4930 Selected Topics in Information Studies*
• MHS 4931 Selected Topics*
• PAD 4930 Special Topics in Public Administration and Public Policy*
• PHC 4931 Health Care Ethics
• SOW 3210 The American Social Welfare System
• SPA 3002 Introduction to Communication Sciences and Disorders
• SPA 4257 Adult Communication Disorders

*See Health Sciences Advisor for approval.
Requirements for the Concentration in Biological Health Sciences and Social and Behavioral Health Sciences

Total Concentration Hours: 64

Concentration Core (30 Hours)

Biological Health Sciences courses (students must take 15 hours from this list):

- ANT 4462 Health, Illness, and Culture
- ANT 4520C Forensic Anthropology
- APK 3120 Exercise Physiology
- BSC 3022 Biology of Aging
- BSC 4933 Selected Topics in Biology*
- CHM 2023 Chemistry for Today
- CHM 2045 General Chemistry I and CHM 2045L General Chemistry I Laboratory
- CHM 2046 General Chemistry II and CHM 2046L General Chemistry II Laboratory
- GEY 3601 Physical Changes and Aging
- HSC 4430 Occupational Health and Safety
- HSC 4504 Foundations of Public Health Immunology
- HSC 4551 Survey of Human Diseases
- HSC 4573 Foundations of Food Safety
- HSC 4624 Foundations of Global Health
- HSC 4933 Special Topics in Public Health*
- HUN 3272 Sports Nutrition
- HUN 3296 Nutrition and Disease
- LIS 4785 Introduction to Health Informatics
- LIS 4930 Selected Topics in Information Studies*
- MCB 3020 General Microbiology
- MCB 3020L General Microbiology Laboratory
- PCB 3063 General Genetics
- PCB 3063L General Genetics Laboratory
- PHC 3302 Introduction to Environmental & Occupational Health
- PHC 3320 Environmental Health Science
- PHC 4030 Introduction to Epidemiology
- PHC 4101 Overview of Public Health Programs and Policies
- PHY 2020 Conceptual Physics or PHY 2053/PHY 2053L General Physics I with Lab
- PHY 2054/PHY 2054L General Physics II with Lab
Communication Sciences & Disorders Cluster (These courses are recommended for students interested in pursuing graduate degrees in communication sciences)

- SPA 3002 Introduction to Communication Sciences and Disorders
- SPA 3004 Introduction to Language Development and Disorders
- SPA 3030 Introduction to Hearing Science
- SPA 3101 Anatomy and Physiology of the Speech and Hearing Mechanism
- SPA 4104 Neuroanatomy of Speech, Language and Hearing

Social and Behavioral Health Sciences courses (students must take 15 hours from this list):

- CLP 4143 Abnormal Child Psychology
- COM 4020 Communicating Illness, Grief and Loss
- COM 4021 Family Communication and the End of Life
- COM 4022 Health Communication
- COM 4225 Global and Cultural Issues in Health Communication
- COM 4702 Communication, Language, and Mental Illness
- HSC 4172 Women’s Health: A Public Health Perspective
- HSC 4211 Health, Behavior and Society
- HSC 4579 Foundations of Maternal and Child Health
- HSC 4631 Critical Issues in Public Health
- HSC 4933 Special Topics in Public Health*
- LIS 4776 Health Information Technology
- LIS 4930 Selected Topics in Information Studies*
- MHS 4022 Adult Psychopathology in the Community
- MHS 4452 Co-Occurring Disorders
- MHS 4490 Behavioral Healthcare Issues for Children
- PAD 4930 Selected Topics in Public Administration and Public Policy*
- PHI 4930 Selected Topics*
- SOP 4330 Social Psychology of HIV/AIDS
- SOW 3102 Human Behavior and the Social Environment II
- SOW 3203 Introduction to Social Work
- SOW 3210 The American Social Welfare System
- SPC 4305 Communicating Emotions
- SPC 4321 Communication and Aging
- SPC 4930 Selected Topics in Communication*
- SYO 4400 Medical Sociology
- WST 4320 Politics and Issues in Women’s Health

Mental Health Cluster (courses for students interested in mental health professions)
SOCIAL AND BEHAVIORAL HEALTH SCIENCES AND HEALTH INFORMATION TECHNOLOGY (HST) CONCENTRATION

REQUIREMENTS FOR THE CONCENTRATION IN SOCIAL AND BEHAVIORAL HEALTH SCIENCES AND HEALTH INFORMATION TECHNOLOGY

TOTAL CONCENTRATION HOURS: 64

CONCENTRATION CORE (30 HOURS)

Social and Behavioral Health Sciences courses (students must take 15 hours from this list):

- CLP 4143 Abnormal Psychology
- COM 4020 Communicating Illness, Grief and Loss
- COM 4021 Family Communication and the End of Life
- COM 4022 Health Communication
- COM 4225 Global and Cultural Issues in Health Communication
- COM 4702 Communication, Language, and Mental Illness
- HSC 4172 Women's Health: A Public Health Perspective
- HSC 4211 Health, Behavior and Society
- HSC 4579 Foundations of Maternal and Child Health
- HSC 4631 Critical Issues in Public Health
- HSC 4933 Special Topics in Public Health*
- LIS 4776 Health Information Technology
- LIS 4930 Selected Topics in Information Studies*
- MHS 4022 Adult Psychopathology in the Community
- MHS 4452 Co-Occurring Disorders
- MHS 4490 Behavioral Healthcare Issues for Children
- PAD 4930 Selected Topics in Public Administration and Public Policy*
• PHI 4930 Selected Topics*
• SOP 4330 Social Psychology of HIV/AIDS
• SOW 3102 Human Behavior and the Social Environment II
• SOW 3203 Introduction to Social Work
• SOW 3210 The American Social Welfare System
• SPC 4305 Communicating Emotions
• SPC 4321 Communication and Aging
• SPC 4930 Selected Topics in Communication*
• SYO 4400 Medical Sociology
• WST 4320 Politics and Issues in Women’s Health

*Mental Health Cluster (courses for students interested in mental health professions)
• MHS 3411 Multidisciplinary Behavioral Healthcare Services
• MHS 4002 Behavioral Health Systems Delivery
• MHS 4408 Exemplary Practices in Behavioral Healthcare Treatment
• MHS 4703 Legal, Ethical and Professional Issues in BHC
• MHS 4931 Selected Topics*

*Substance Abuse Cluster (courses for students interested in substance abuse counseling and treatment professions)
• MHS 3411 Multidisciplinary Behavioral Healthcare Services
• MHS 4408 Exemplary Practices in Behavioral Healthcare Treatment
• MHS 4703 Legal, Ethical and Professional Issues in BHC
• MHS 4931 Selected Topics*
• PSB 3444 Drugs and Behavior

Health Information Technology courses (students must take 15 hours from this list):
• ISM 3113 Systems Analysis and Design
• LIS 3261 Introduction to Information Science
• LIS 3352 Interaction Design
• LIS 3353 IT Concepts for Information Professionals
• LIS 3361 World Wide Web Page Design and Management
• LIS 3783 Information Architecture
• LIS 4204 Information Behaviors
• LIS 4365 Web Design Technologies
• LIS 4380 Information and Social Media
• LIS 4414 Information Policy and Ethics
• LIS 4477 Clinical Decision Support
• LIS 4482 Networks and Communication
• LIS 4776 Health Information Technology
• LIS 4779 Health Information Security
LIS 4785 Introduction to Health Informatics
LIS 4930 Selected Topics in Information Studies*
PAD 4712 Managing Information Resources in the Public Sector
SPC 4930 Selected Topics: Online Communication

*See Health Sciences Advisor for approval.

B.A. - HISTORY (HTY)
(CIP = 54.0101)
TOTAL DEGREE HOURS: 120

http://history.usf.edu/ug/ba/

The discipline of history embraces a diverse world of ideas, peoples, and events. Our faculty seeks to inform and to question, to provoke and to challenge our students to a higher level of understanding of the past. History at the University of South Florida offers the student an opportunity to explore civilizations from around the globe and from the ancient through contemporary eras. We encourage our students to move beyond traditional memorization of material to a critical level of thinking, analysis, and synthesis. Accomplished history majors are attractive to all kinds of employers in any number of fields, as well as to graduate and professional schools. USF history alumni can be found in such diverse professions as law, medicine, business, government, foreign service, politics, and education.

STATE MANDATED COMMON COURSE PREREQUISITES

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 General Education 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.

Transfer students are also required to comply with the immunization, foreign language, and continuous enrollment policies of the university.

Students should complete the following prerequisite courses 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.

- AFH XXXX or AMH XXXX or EUH XXXX or WOH XXXX or LAH XXXX or ASH XXXX or HIS XXXX
- AFH XXXX or AMH XXXX or EUH XXXX or WOH XXXX or LAH XXXX or ASH XXXX or HIS XXXX

REQUIREMENTS FOR THE MAJOR IN HISTORY

TOTAL MAJOR HOURS: 33

MAJOR REQUIREMENTS FOR THE B.A. DEGREE:

MAJOR CORE (33 HOURS)

A minimum of 33 semester hours of History Department courses are required to earn a B.A. degree in History.

Lower-Level Course Requirements for the Major (9 credit hours):

Students must complete a minimum total of 9 hours of 2000-level courses, or their equivalent, to meet the lower level requirements of the major. Completing the lower-level requirement of the major also satisfies the common prerequisite requirements.

- AMH 2010 American History I
- AMH 2020 American History II
- ASH 2270 Southeast Asian History
Upper-Level Course Requirements for the Major (18 credit hours)

 Students must complete a minimum of 18 hours of 3000-level courses, or their equivalent, to fulfill the intermediate-level requirements of the major. Students may take a maximum of three sections of HIS 3938 (Major Issues in History) as part of this requirement. Courses may include (but are not limited to):

- AFH 3100 African History to 1850
- AFH 3200 African History since 1850
- AMH 3098 Race in America
- AMH 3110 American Colonial History to 1750
- AMH 3130 The American Revolutionary Era
- AMH 3140 The Age of Jefferson
- AMH 3160 The Age of Jackson
- AMH 3170 The Civil War and Reconstruction
- AMH 3201 The United States, 1877-1914
- AMH 3231 The United States, 1914-1945
- AMH 3270 The United States since 1945
- AMH 3341 American Food & Drink History
- AMH 3342 Globalization and U.S. Culture
- AMH 3390 19th Century American History
- AMH 3402 Southern History, 1607-1865
- AMH 3403 The South since 1865
- AMH 3421 Early Florida
- AMH 3423 Modern Florida
- AMH 3500 American Labor
- AMH 3512 U.S. Foreign Relations
- AMH 3530 Immigration History
- AMH 3533 The Irish in America
- AMH 3545 War and American Empire
- AMH 3561 American Women I
• AMH 3562 American Women II
• AMH 3571 African American History to 1865
• AMH 3572 African American History since 1865
• AMH 4940 Early American History and Archaeology Internship
• ASH 3404 Modern China
• EUH 3142 Renaissance and Reformation
• EUH 3181 Medieval Culture
• EUH 3185 Viking History
• EUH 3188 Medieval Society
• EUH 3189 Medieval Politics
• EUH 3202 History of the 17th and 18th Century Europe
• EUH 3205 History of Nineteenth Century Europe
• EUH 3206 History of Twentieth Century Europe
• EUH 3401 Classical Greece
• EUH 3402 Age of Alexander
• EUH 3412 Roman Republic
• EUH 3413 Roman Empire
• EUH 3451 Modern France and its Empire
• EUH 3462 German History 1870 to the Present
• EUH 3501 British History to 1688
• EUH 3502 British History to Present
• EUH 3533 Celtic History
• EUH 3575 History of Imperial Russia, 1689-1717
• EUH 3576 History of the Soviet Union, 1917-1991
• EUH 3676 Christians, Pagans, Heretics
• HIS 3308 War and Society
• HIS 3930 Special Topics
• HIS 3938 Major Issues in History
• HIS 4900 Directed Reading
• HIS 4920 Colloquium in History
• HIS 4940 Internship
• HUM 2593: Science in Cultural Context (if section is taught by History Faculty)
• LAH 3130 Colonial Latin America
• LAH 3200 Modern Latin America
• LAH 3430 History of Mexico
• LAH 3470 History of the Caribbean
• LAH 3480 History of Cuba
LIT 3410: Religious and Philosophical Themes (if section is taught by History Faculty)
WOH 3209 History of Terrorism
WOH 3245 History of Sports
WOH 3293 Islam in World History
WST 3210 European Feminist History: Pre-18th Century
WST 3220 European Feminist History: Enlightenment to the Present
WST 4310 History of Feminism in the U.S.

Upper-Level Course Requirements for the Major – Permits required (6 credit hours):

Students must complete a minimum of 6 hours of 3000 or 4000-level courses, or their equivalent to fulfill the upper-level requirements of the major. These courses fall into two categories (as described below). These courses should not be taken in the same semester.

**Category 1:** Students must take one 3000- or 4000-level course that focuses on research skills, practical experiences, professional development, or historical methods. This course should be selected in consultation with the Academic Advisor, according to the student's professional and postgraduate goals. Examples of these courses include (but are not limited to):

- **HIS 4104:** Theory and Methods of History. This course introduces history majors to the theories, methods, approaches, and key debates that are central to the modern historical profession. Students also develop skills in historical research, reading, writing, and oral communication. Students interested in applying to graduate programs in History, at the MA or PhD levels should consider taking either Theory and Methods of History or a second Pro-Seminar.

- **HIS 4936:** Pro-Seminar (a second section; one is required - see below). History majors will complete research papers in the HIS 4936 Seminar courses. Students are also encouraged to work with the Office for Undergraduate Research to participate in their annual Undergraduate Research Symposium. Also, students are encouraged to attend or present research papers at conferences, such as the annual Phi Alpha Theta regional conference. Students interested in applying to graduate programs in History, at the MA or PhD levels, should consider taking either Theory and Methods of History or a second Pro-Seminar.

- **3000- or 4000-level Digital Humanities:** Students interested in learning skills related to digital tools and technologies, and exploring how they are applied to different academic fields and professions, should consider taking a Digital Humanities course at the 3000- or 4000-level.

- **HIS 4940:** Internship in History: The USF History department encourages students to take part in internships, and offers several for-credit opportunities within the major. Currently, the History department has a variety of internship partners available, including museums and historical societies. Potential internship activities can include working with collections, processing archival materials, research, leading guided tours, and building exhibits. Students will work closely with the undergraduate advisor and faculty coordinator to select internship opportunities.

**AND**

**Category 2:** HIS 4936: Pro-Seminar. History majors will complete research papers in the HIS 4936 Seminar courses. Students are also encouraged to work with the Office for Undergraduate Research to participate in their annual Undergraduate Research Symposium. Also, students are encouraged to attend or present research papers at conferences, such as the annual Phi Alpha Theta regional conference.
MAJOR ELECTIVES
For elective hours outside of the major, it is recommended that History majors take:

- HUM 2593: Science in Cultural Context
- IDS 2192: Global History and Politics Since 1945
- LIT 3410: Religious and Philosophical Themes

Additional hours can be profitably drawn from the following disciplines: Africana Studies, Anthropology, Classics, Economics, Geography, School of Interdisciplinary Global Studies, Philosophy, Religious Studies, Sociology, Women's Studies, Literature, Humanities and Cultural Studies, and Art History.

GPA REQUIREMENTS
A Major GPA of at least 2.00 is necessary for graduation.

GRADING REQUIREMENT
A minimum grade of C- or better must be attained in each course counted toward the 33-hour requirement.

RESIDENCY REQUIREMENT
The B.A. degree in History from USF requires that 50 percent of the major coursework be completed at the USF campus. This rule will be strictly enforced.

RESEARCH OPPORTUNITIES
All undergraduate students in any degree program can participate in undergraduate research. There are a number of options to receive academic credit for a mentored research experience and to have the experience show on the official transcript. Students who wish to enroll in an undergraduate research course should consult with their academic advisor to understand how the credit will apply towards the degree requirements. If no credit is needed, students may be eligible to enroll in the 0-credit IDS 2912, IDS 4914 or IDH 4910 courses. These courses will not impact degree credits or GPA but will show on an official transcript and document the experience. The Office of Undergraduate Research will assist students in understanding the various course options.

OTHER INFORMATION
Students are encouraged to join the History Honor Society - Phi Alpha Theta. Membership applications are available at the History Department office, SOC 260.

ADVISING INFORMATION
Undergraduate Advisor, History Department; Location: Social Science Building (SOC) 265. HistoryAdvise@usf.edu

HISTORY FACULTY
B.A. - HUMANITIES AND CULTURAL STUDIES (HCS)

(CIP = 24.0103)

TOTAL DEGREE HOURS: 120

http://humanities.usf.edu/undergraduate/ba/

The Humanities program offers an interdisciplinary curriculum that investigates the visual arts, music, and literature, and the cultures from which they emerge.

STATE MANDATED COMMON COURSE PREREQUISITES

Students desiring to transfer to USF should complete an A.A. degree at a Florida College System institution. If students transfer with fewer than 60 semester hours of acceptable credit, the students must meet the University's entering freshman requirements including ACT or SAT test scores, GPA, and course requirements. Transfer students are also required to comply with the immunization, foreign language, and continuous enrollment policies of the university.

There are no State Mandated Common Prerequisites for this program. All Florida College System students are encouraged to complete the Associate degree. Students should consult with an academic advisor in their major degree area at the intended transfer institution.

REQUIREMENTS FOR THE MAJOR IN HUMANITIES AND CULTURAL STUDIES

TOTAL MAJOR HOURS: 9

MAJOR REQUIREMENTS FOR THE B.A. DEGREE:

MAJOR CORE (9 HOURS)

Students must complete the following required courses for the major (9 credit hours):

- HUM 3804 Introduction to Cultural Studies
- HUM 4331 Humanities Pro-Seminar
- HUM 4931 Seminar in Humanities

Students choose one 27 credit-hour concentration from the following list of concentrations:

- American Studies
- Film and New Media Studies
- Humanities

GPA REQUIREMENTS

Minimum 2.0 GPA.

COURSE GRADE REQUIREMENT

Students must pass HUM 3804 with a B- in order to enroll in HUM 4331. Students must pass HUM 4331 with at least a C- to register for HUM 4931.

RESEARCH OPPORTUNITIES

The Humanities major offers six credit hours of undergraduate research through the senior-year sequence (HUM 4331 and HUM 4931).
INTERNSHIP OPPORTUNITIES

The Department of Humanities & Cultural Studies (HCS) offers an internship for Tampa-based, degree-seeking students declared as HUM or AMS majors and who have earned at least 12 credit hours of approved courses in the major prior to starting the internship. This internship consists of supervised work-and-learning experience in humanities and cultural issues under the direction of a University faculty member/administrator and an employee of a participating sponsor organization. The internship counts as a major elective. Specifically, it counts as a “concentration” course for HUM majors, an upper-level elective for AMS majors, and an “interdisciplinary cultural studies” course for HUM majors who are pursuing a track in film & new media studies.

Students participating in the internship must enroll in the HUM 4940 Internship in Humanities & Cultural Studies class (and, in some instances, AMS 4940 to make sure the credits equal 3). This class earns up to 3 semester hours of academic credit. Students report to the HCS Internship Coordinator weekly through formal status reports via webform. A final professional portfolio and final reflection paper are significant parts of this experience.

For more information please visit the Department's internship page: http://humanities.usf.edu/internships/.

ACCELERATED B.A./M.A. PROGRAM

Accelerated B.A. in Humanities and Cultural Studies with a concentration in Film and New Media Studies and M.A. in Liberal Arts with a concentration in Film Studies

This program intends for students to complete a B.A. in Humanities and Cultural Studies with a concentration in Film and New Media Studies and M.A. Liberal Arts with a concentration in Film Studies over the span of five years. Completion of this program allows students to complete 12 credit hours toward the M.A. in during their junior or senior year in the Humanities and Cultural Studies major. Students who decide not to pursue the M.A. but who complete the B.A. requirements will receive the B.A. degree.

HUMANITIES AND CULTURAL STUDIES FACULTY

Chairperson: A. Berish; Professor: R.E. Snyder, W. Cummings; Associate Professors: D. Belgrad, M. Cizmic, A. Cozzi, W. Cummings; J. D’Emilio, R. May, B. Sadler; Assistant Professors: S. Ferguson, A. Rust; Professors Emeriti: C.B. Cooper, S.L. Gaggi, G.S. Kashdin, D. Rutenberg; Instructors: S. Dykins Callahan, B. Cook, B. Goldberg, C. Rinck.

AMERICAN STUDIES (AMSC) CONCENTRATION

The American Studies concentration is an interdisciplinary concentration dealing with the study of the United States.

REQUIREMENTS FOR THE CONCENTRATION IN AMERICAN STUDIES

TOTAL CONCENTRATION HOURS: 36

CONCENTRATION CORE (9 HOURS)

Required courses for the concentration:
- AMS 2030 Introduction to American Studies
- AMS 2270 Twentieth-Century American Culture

Students select one course from the following list:
- FIL 1002 Introduction to Film Studies
- HUM 2522 Introduction to the Cultural Study of Popular Music

Concentration Electives (18 hours)

Students take an additional 18 credit hours of upper-level coursework from Humanities and Cultural Studies courses.
ACCELERATED B.A./M.A. PROGRAM

Accelerated B.A. in Humanities and Cultural Studies with a concentration in Film and New Media Studies and M.A. in Liberal Arts with a concentration in Film Studies

This program intends for students to complete a B.A. in Humanities and Cultural Studies with a concentration in Film and New Media Studies and M.A. Liberal Arts with a concentration in Film Studies over the span of five years. Completion of this program allows students to complete 12 credit hours toward the M.A. in during their junior or senior year in the Humanities and Cultural Studies major. Students who decide not to pursue the M.A. but who complete the B.A. requirements will receive the B.A. degree.

FILM AND NEW MEDIA STUDIES (FMSC) CONCENTRATION

The Film and New Media Studies concentration is designed to teach students how to think actively, critically, and creatively, about the art of the moving image. To this end, it surveys significant examples of moving-image culture, including films from Hollywood and other global industries; experiments in documentary, avant-garde, and art cinema; and works from television, digital video, and the Internet.

REQUIREMENTS FOR THE CONCENTRATION IN FILM AND NEW MEDIA STUDIES

TOTAL CONCENTRATION HOURS: 36

CONCENTRATION CORE (12 HOURS)

Required courses for the concentration:

- FIL 1002 Introduction to Film Studies
- FIL 3052 Foundations of Film & New Media
- FIL 3077 Contemporary Film & New Media

Students select one course from the following list:

- AMS 2270 Twentieth-Century American Culture
- HUM 2250 Studies in Culture: The Twentieth Century

Concentration Electives (15 hours)

Students take an additional 15 credit hours of upper-level coursework from Humanities and Cultural Studies with an AMS, FIL, or HUM prefix.

ACCELERATED B.A./M.A. PROGRAM

Accelerated B.A. in Humanities and Cultural Studies with a concentration in Film and New Media Studies and M.A. in Liberal Arts with a concentration in Film Studies

This program intends for students to complete a B.A. in Humanities and Cultural Studies with a concentration in Film and New Media Studies and M.A. Liberal Arts with a concentration in Film Studies over the span of five years. Completion of this program allows students to complete 12 credit hours toward the M.A. in during their junior or senior year in the Humanities and Cultural Studies major. Students who decide not to pursue the M.A. but who complete the B.A. requirements will receive the B.A. degree.

HUMANITIES (HUMC) CONCENTRATION

The Humanities concentration is the study of humanity itself and uses specifically the seven arts to investigate and analyze the fundamental human activities. The seven arts which include painting, sculpture, architecture, music, dance, literature, theatre, and cinema are the branches of learning responsible for human sentiments, aspirations and opinions.
REQUIREMENTS FOR THE CONCENTRATION IN HUMANITIES

TOTAL CONCENTRATION HOURS: 36

CONCENTRATION CORE (9 HOURS)

Students select two courses from the following list:

- AMS 2270 Twentieth-Century American Culture
- HUM 2210 Studies in Culture: The Classical Through Medieval Periods
- HUM 2230 European Humanities: Renaissance - 20th Century
- HUM 2250 Studies in Culture: The Twentieth Century
- HUM 2273 Eastern and Western Culture Since 1400

Students select one course from the following list:

- FIL 1002 Introduction to Film Studies
- HUM 2522 Introduction to the Cultural Study of Popular Music

Concentration Electives (18 hours)

Students take an additional 18 credit hours of upper-level coursework from Humanities and Cultural Studies courses.

ACCELERATED B.A./M.A. PROGRAM

Accelerated B.A. in Humanities and Cultural Studies with a concentration in Film and New Media Studies and M.A. in Liberal Arts with a concentration in Film Studies

This program intends for students to complete a B.A. in Humanities and Cultural Studies with a concentration in Film and New Media Studies and M.A. Liberal Arts with a concentration in Film Studies over the span of five years. Completion of this program allows students to complete 12 credit hours toward the M.A. in during their junior or senior year in the Humanities and Cultural Studies major. Students who decide not to pursue the M.A. but who complete the B.A. requirements will receive the B.A. degree.

B.S. - INFORMATION STUDIES (IFS)

(CIP = 11.0103 - TRACK 2 OF 4)

TOTAL DEGREE HOURS: 120

http://si.usf.edu/undergraduate-bs/

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. Concentrations are available in four high-demand job areas: Information Security, Health Informatics, Data Science and Analytics, and Information Science and Technology. 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.

STATE MANDATED COMMON COURSE PREREQUISITES

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 General Education 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.
Transfer students are also required to comply with the immunization, foreign language, and continuous enrollment policies of the university.

Students should complete the following prerequisite courses 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 in prerequisite courses.

- PSY XXXX Any Psychology course
- STA X023 Introductory Statistics I or STA X122
- ECO X013 Principles of Economics (Macroeconomics)
- CGS XXXX Any Database Course
- COP XXXX Any Computer Programming course
- COP XXXX Any Object-Oriented Computer Programming course
- MAC XXXX Any Pre-Calculus or Discrete Math course
- PHI XXXX Any General Ethics course

**REQUIREMENTS FOR THE MAJOR IN INFORMATION STUDIES**

**TOTAL MAJOR HOURS: 39**

**MAJOR REQUIREMENTS FOR THE B.S. DEGREE:**

**MAJOR CORE (18 HOURS)**

Students admitted to the program prior to the Fall 2011 semester follow previous catalog guidelines.

- LIS 3261 Introduction to Information Science
- LIS 3353 IT Concepts for Information Professionals
- LIS 4204 Information Behaviors
- LIS 4414 Information Policy and Ethics

Exit Courses (6 credits):

- ENC 3249 Communication for IT Professionals (WRIN)
- IDS 4934 Senior Capstone (CPST)

**MAJOR ELECTIVES (21 HOURS)**

Students must choose one of the following 21 credit hour concentrations:

- Data Science and Analytics
- Health Informatics
- Information Science and Technology
- Information Security

**RESEARCH OPPORTUNITIES**

All undergraduate students in any degree program can participate in undergraduate research. There are a number of options to receive academic credit for a mentored research experience and to have the experience show on the official transcript. Students who wish to enroll in an undergraduate research course should consult with their academic advisor to understand how the credit will apply towards the degree requirements. If no credit is needed, students may be eligible to enroll in the 0-credit IDS 2912, IDS 4914 or IDH 4910 courses. These courses will not impact degree credits or GPA but will show on an official transcript and document the experience. The Office of Undergraduate Research will assist students in understanding the various course options.
INFORMATION STUDIES FACULTY


DATA SCIENCE AND ANALYTICS (IDSC) CONCENTRATION

REQUIREMENTS FOR THE CONCENTRATION IN DATA SCIENCE AND ANALYTICS

TOTAL CONCENTRATION HOURS: 39

CONCENTRATION CORE (18 HOURS)

Area of emphasis in deep knowledge discovery through data exploration, analysis, and inference.

- LIS 4273 Advanced Statistics and Analytics
- LIS 4317 Introduction to Visual Analytics
- LIS 4370 R Programming for Data Science
- LIS 4761 Introduction to Data & Text Mining
- LIS 4800 Introduction to Data Science
- LIS 4805 Predictive Analytics

Concentration Electives (3 hours)

Students choose three (3) credit hours of electives from the following list:

- LIS 2005 Information Literacy
- LIS 3352 Interaction Design
- LIS 3361 World Wide Web Page Design and Management
- LIS 3783 Information Architecture
- LIS 4029 Professional & Technical Communication for Analysts
- LIS 4365 Web Design Technologies
- LIS 4482 Networks and Communication
- LIS 4477 Clinical Decision Support
- LIS 4776 Health Information Technology
- LIS 4779 Health Information Security
- LIS 4785 Introduction to Health Informatics
- LIS 4930 Selected Topics in Information Studies (maybe taken as an elective but will require consultation with advisor for approved course selection and an advisor exception)
HEALTH INFORMATICS (IHIC) CONCENTRATION

REQUIREMENTS FOR THE CONCENTRATION IN HEALTH INFORMATICS

TOTAL CONCENTRATION HOURS: 39

CONCENTRATION CORE (18 HOURS)

Areas of emphasis: design, development, adoption, and application of IT-based innovations in healthcare services delivery, management, and planning.

- LIS 4477 Clinical Decision Support
- LIS 4482 Networks and Communication
- LIS 4776 Health Information Technology
- LIS 4779 Health Information Security
- LIS XXXX
- LIS 4785 Introduction to Health Informatics

Concentration Electives (3 hours)

Students choose three (3) credit hours of electives from the following list:

- LIS 2005 Library and Internet Research Skills
- LIS 3352 Interaction Design
- LIS 3361 World Wide Web Page Design and Management
- LIS 3783 Information Architecture
- LIS 4029 Professional & Technical Communication for Analysts
- LIS 4273 Advanced Statistics and Analytics
- LIS 4317 Introduction to Visual Analytics
- LIS 4365 Web Design Technologies
- LIS 4370 R Programming for Data Science
- LIS 4761 Introduction to Data & Text Mining
- LIS 4800 Introduction to Data Science
- LIS 4805 Predictive Analytics
- LIS 4930 Selected Topics in Information Studies (topic must be approved by the advisor or program director)
INFORMATION SECURITY (IISC) CONCENTRATION

REQUIREMENTS FOR THE CONCENTRATION IN INFORMATION SECURITY

TOTAL CONCENTRATION HOURS: 39

CONCENTRATION CORE (18 HOURS)

Area of emphasis: cybersecurity and protecting information or data from unauthorized access, use, misuse, disclosure, destruction, modification, or disruption.

- CIS 3360 Principles of Information Security
- CIS 3367 Architecting Operating System Security
- CIS 4204 Ethical Hacking
- CIS 4361 Information Assurance and Security Management for IT
- CIS 4365 Computer Security Policies and Disaster Preparedness
- LIS 4482 Networks and Communication

Concentration Electives (3 hours)

Students choose any three (3) credit hours of electives from the following list:

- LIS 2005 Information Literacy
- LIS 3352 Interaction Design
- LIS 3361 World Wide Web Page Design and Management
- LIS 3783 Information Architecture
- LIS 4029 Professional & Technical Communication for Analysts
- LIS 4273 Advanced Statistics and Analytics
- LIS 4317 Introduction to Visual Analytics
- LIS 4365 Web Design Technologies
- LIS 4370 R Programming for Data Science
- LIS 4477 Clinical Decision Support
- LIS 4761 Introduction to Data & Text Mining
- LIS 4776 Health Information Technology
- LIS 4779 Health Information Security
- LIS 4785 Introduction to Health Informatics
- LIS 4800 Introduction to Data Science
- LIS 4805 Predictive Analytics
- LIS 4930 Selected Topics in Information Studies (topic must be approved by the advisor or program director)
INFORMATION SCIENCE AND TECHNOLOGY (ISTC) CONCENTRATION

REQUIREMENTS FOR THE CONCENTRATION IN INFORMATION SCIENCE AND TECHNOLOGY

TOTAL CONCENTRATION HOURS: 39

CONCENTRATION CORE

This is a flexible concentration for students who prefer to survey a wide range of courses within the discipline or who choose to concentrate their coursework in particular areas like Information Architecture or Web Development and Design.

Students who choose the Information Science and Technology concentration must take the required credit hours for the major core, EXIT, and concentration core and electives.

Concentration Electives (21 hours)

Students choose twenty-one (21) credit hours of electives from the following list:

- LIS 2005 Library and Internet Research Skills
- LIS 3352 Interaction Design
- LIS 3361 World Wide Web Page Design and Management
- LIS 3783 Information Architecture
- LIS 4029 Professional & Technical Communication for Analysts
- LIS 4273 Advanced Statistics and Analytics
- LIS 4317 Introduction to Visual Analytics
- LIS 4365 Web Design Technologies
- LIS 4370 R Programming for Data Science
- LIS 4477 Clinical Decision Support
- LIS 4482 Networks and Communication
- LIS 4761 Introduction to Data & Text Mining
- LIS 4776 Health Information Technology
- LIS 4779 Health Information Security
- LIS 4785 Introduction to Health Informatics
- LIS 4800 Introduction to Data Science
- LIS 4805 Predictive Analytics
- LIS 4930 Selected Topics in Information Studies (topic must be approved by the advisor or program director)

Additional course options may be approved by the advisor or program director.
B.S. - INTEGRATED PUBLIC RELATIONS AND ADVERTISING (IPRA)
(CIP = 09.0900)
TOTAL DEGREE HOURS: 120

The Bachelor of Science in Integrated Public Relations and Advertising will prepare students for leadership positions in the quickly evolving fields of public relations advertising, and integrated marketing communications and meet workforce demand. Graduates will understand the integrative nature of modern persuasive communication and be able to incorporate technology. Graduates will also find themselves assisting clients with strategic marketing and corporate strategies with absolute accountability in a vastly more complicated digital media environment.

STATE MANDATED COMMON COURSE PREREQUISITES

Students desiring to transfer to USF should complete an A.A. degree at a Florida College System institution. If students transfer with fewer than 60 semester hours of acceptable credit, the students must meet the University’s entering freshman requirements including ACT or SAT test scores, GPA, and course requirements. Transfer students are also required to comply with the immunization, foreign language, and continuous enrollment policies of the university.

There are no State Mandated Common Prerequisites for this program.

REQUIREMENTS FOR THE MAJOR IN INTEGRATED PUBLIC RELATIONS AND ADVERTISING

TOTAL MAJOR HOURS: 48

MAJOR REQUIREMENTS FOR THE B.S. DEGREE:

MAJOR CORE (33 HOURS)

Required Core Courses in the School (27 credit hours)

- Take one of the following:
  - MMC 2100 Writing for the Mass Media
  - ADV 2214 Graphic Programs in Mass Communications
- ADV 3008 Introduction to Advertising
- PUR 3000 Principles of Public Relations
- ADV 3101 Advertising Creativity
- ADV 3300 Advertising Media Strategy
- PUR 3500 Public Relations Research
- MMC 3602 Mass Communications and Society
- MMC 4208 Media Law and Ethics
- Take one of the following:
  - ADV 4800 Advertising Campaigns
  - PUR 4801 Advanced Public Relations

Other Major Core Requirements (6 credit hours): The following courses are required outside the School to complete degree requirements:

- MAR 3023 Basic Marketing
- STA 2023 Introductory Statistics I
MAJOR ELECTIVES (15 HOURS)

Major Electives (15 hours) Choose 15 credit hours of coursework from the following list:

- ADV 3200 Advertising Design
- ADV 4204 Advanced Advertising Creativity
- ADV 4301 Advanced Media Strategy
- ADV 4310 Digital Media
- ADV 4600 Advertising Management
- ADV 4710 Portfolio Building
- MMC 4936 Selected Topics in Mass Communications Studies
- ADV 4940 Internship (strongly recommended)
- PUR 4100 Writing for Public Relations
- PUR 4101 Public Relations Design and Production
- PUR 4401 Public Relations: Issues, Practices, and Problems
- PUR 4412 Persuasion in Digital Media
- RTV 4321 Electronic Field Production
- VIC 3001 Visual Literacy
- Or one (1) course from the Zimmerman School of Advertising & Mass Communications curriculum outside of those above, with advisor approval

GPA REQUIREMENTS

2.50

COURSE GRADE REQUIREMENT

C (2.0)

RESIDENCY REQUIREMENT

18 hours

RESEARCH OPPORTUNITIES

All undergraduate students in any degree program can participate in undergraduate research. There are a number of options to receive academic credit for a mentored research experience and to have the experience show on the official transcript. Students who wish to enroll in an undergraduate research course should consult with their academic advisor to understand how the credit will apply towards the degree requirements. If no credit is needed, students may be eligible to enroll in the 0-credit IDS 2912, IDS 4914 or IDH 4910 courses. These courses will not impact degree credits or GPA but will show on an official transcript and document the experience. The Office of Undergraduate Research will assist students in understanding the various course options.

INTEGRATED PUBLIC RELATIONS AND ADVERTISING FACULTY

Students majoring in Integrative Animal Biology study the biology of animals. The program of study explores the structure and function of invertebrates, humans, and other vertebrates. The objective of the program is to provide students with a firm foundation in basic biology and the tools necessary to function as professional biologists, with special emphasis on animals. The program will prepare students for further education (e.g., medicine, veterinary medicine, animal biology, evolutionary biology) or for careers in fields such as medical assistance, veterinary assistance, animal care, and zoo biology and education.

STATE MANDATED COMMON COURSE PREREQUISITES

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 General Education 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.

Transfer students are also required to comply with the immunization, foreign language, and continuous enrollment policies of the university.

Students should complete the following prerequisite courses 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 in prerequisite courses.

- BSC X010/X010L Biology I with Lab or BSC X010C or BSC X040/X040L or BSC X040C
- BSC X011/X011L Biology II with Lab or BSC X011C or BSC X041/X041L or ZOO X010/X010L or BOT X010/X010L or BOT X013/X013L or BSC X041C or ZOO X0101C or BOT X0101C or BOT X013C
- CHM X045/X045L General Chemistry I with Lab or CHM X045C or CHM X040 and CHM X041
- CHM X046/X046L General Chemistry II with Lab or CHM X046C
- CHM X210/X210L Organic Chemistry I with Lab and CHM X211/X211L or (CHM X210C and CHM X211C) or [PHY X053 and (PHY X053L or PHY X048L) and PHY X054 and (PHY X054L or PHY X049L)] or (PHY X048/X048L and PHY X049/X049L)
- MAC X311 Calculus I or MAC X233 or MAC X253 or MAC X281 or MAC X241
- MAC X312 Calculus II or MAC X282 or MAC X234 or STA X023 or STA X024 or STA X321

REQUIREMENTS FOR THE MAJOR IN INTEGRATIVE ANIMAL BIOLOGY

REQUIREDSUPPORTING COURSES FOR THE MAJOR: 32-34 HOURS

The following courses are prerequisite and supporting courses for this major. They are required for the major, but are not counted in the total hours for this major. The degree will not be awarded if these courses have not been taken by the end of the student’s final semester.

- CHM 2045 and CHM 2045L General Chemistry I and Laboratory
- CHM 2046 and CHM 2046L General Chemistry II and Laboratory
- CHM 2210 and CHM 2210L Organic Chemistry I and Laboratory
- CHM 2211 and CHM 2211L Organic Chemistry II and Laboratory
- Calculus I: MAC 2241 or MAC 2311 or MAC 2281
Statistics or Calculus II: STA 2023 or MAC 2242 or MAC 2312 or MAC 2282

One of the Physics Sequences:
  o PHY 2053/2053L General Physics II and PHY 2054/2054L General Physics II
  o PHY 2048/2048L General Physics I - Calculus Based and PHY 2049/2049L General Physics II - Calculus Based
    • PHY 2060 may substitute for PHY 2048 and PHY 2061 may substitute for PHY 2049.

Students must receive a C- or better to meet requirements for degree (for progression in Math and CHM, a C is required).

TOTAL MAJOR HOURS: 40

MAJOR REQUIREMENTS FOR THE B.S. DEGREE:

MAJOR CORE (24 HOURS)

Biology Core Curriculum: 16 credit hours
  • BSC 2010 Cellular Processes
  • BSC 2010L Cellular Processes Laboratory
  • BSC 2011 Biodiversity
  • BSC 2011L Biodiversity Laboratory
  • PCB 3043 Principles of Ecology
  • PCB 3043L Principles of Ecology Laboratory
  • PCB 3063 General Genetics
  • PCB 3063L General Genetics Laboratory

Structure and Function Courses: 8 credit hours
Choose one Structure & Function Pairing from the following list:
  • Invertebrate Biology
    o ZOO 3205C Advanced Invertebrate Zoology AND PCB 3712/PCB 3713L General Physiology and Lab
  • Vertebrate Biology
    o BSC 4933 Selected Topics in Biology: Vertebrate Natural History and Lab OR ZOO 3713C Comparative Vertebrate Anatomy OR BSC 4933 Selected Topics in Biology: Mammalogy and Lab AND PCB 3712/PCB 3713L General Physiology and Lab
  • Human Biology
    o BSC 2093C Human Anatomy & Physiology I AND BSC 2094C Human Anatomy & Physiology II

MAJOR ELECTIVES (16 HOURS)
Choose 16 additional hours of Integrative Animal Biology Major courses (8 of the 16 hours must be 4000+ level Biology Major Courses), from Tampa Campus IB Department or CMMB Department course offerings (prefix of BOT, BSC, MCB, PCB, or ZOO), with the exception of BSC 4905 and courses labeled as “not for major credit”.
  • Students must complete a minimum of 40 credit hours of major coursework.
  • Most advanced biology courses are not offered every semester; there are no set offerings for summer semesters.
  • Maximum of four (4) semester hours BSC 4910 Undergraduate Research can apply
Included Departments/Divisions:
Division of Health Professions Advising; Department of Chemistry; Department of Cell Biology, Microbiology and Molecular Biology; and Department of Integrative Biology.

Included courses:
BCH 3053; BSC 2010; BSC 2011; BSC 2085; BSC 2086; BSC 2093C; BSC 2094C; BSC 2932; CHM 2023; CHM 2045; CHM 2210; CHM 2211; CHS 2440; MAT 1033; MAC 1105; MAC 1147; MAC 2241; MAC 2242; MAC 2281; MAC 2282; MAC 2311; MAC 2312; MCB 3020; PCB 3023; PCB 3063; PHY 2053; PHY 2054; PHY 2048; PHY 2049; PHY 2060; PHY 2061; STA 2023.

GRADING REQUIREMENT
A student must receive a C- grade or better in all Department of Integrative Biology and Department of Cell Biology, Microbiology, and Molecular Biology courses and supporting courses in the natural sciences, except if they are used as general elective courses. This specification applies to both USF and transfer courses.

Please note that some supporting science courses may require a grade of C or better in order to meet the prerequisite requirements for course sequences.

RESIDENCY REQUIREMENT
A minimum of 20 credits hours of courses must be taken in residency and be applicable to the major.

Once a student has matriculated to USF Tampa, he/she is expected to take 100 percent of the required major coursework at USF Tampa.

RESEARCH OPPORTUNITIES
Undergraduate research is a great way to get hands-on experience in what you are studying and learning in your courses, and even to advance biological knowledge. Many students have authored articles based on their participation in on-going research in the Department. Undergraduate research also is a great way to boost your resume and to enhance your application to graduate school or health professional school. Several ways are available to get involved; see http://biology.usf.edu/ib/ug/research/.

To be eligible to receive credit for undergraduate research (BSC 4910), students must have Junior standing, a 3.0 USF GPA, and a 3.0 major GPA. A maximum of 4 credit hours BSC 4910 may be applied to the major electives; see http://biology.usf.edu/bioadvise/ug-research/credit.aspx.
ACCELERATED B.S./M.A.T. PROGRAM

Accelerated B.S. in Integrative Animal Biology and M.A.T. in Science Education

This program intends for students to complete a B.S. in Integrative Animal Biology (College of Arts and Sciences) and M.A.T. in Science Education (College of Education) over the span of five years. Students completing this program will be eligible for high school and/or middle school science teacher certification. Completion of this program requires students to complete 12 credit hours toward the M.A.T. in Science Education during their senior year in the Integrative Animal Biology major.

ADVISING INFORMATION

BioAdvise: Science Center (SCA) 203; (813) 974-3250
http://biology.usf.edu/bioadvise/
Email: bioadvise@usf.edu

INTEGRATIVE ANIMAL BIOLOGY FACULTY


B.S. - INTERDISCIPLINARY NATURAL SCIENCES (INS)
(CIP = 30.0101 - TRACK 16 OF 16)
TOTAL DEGREE HOURS: 120
http://chemistry.usf.edu/undergraduate/majors/inter/

The Interdisciplinary Natural Sciences degree serves the academic and career goals of undergraduate students who seek a broad education in the Natural Sciences (Biology, Chemistry, Physics, Mathematics, Geology). Students select a sequence of upper-level courses based on career goals, choosing three of the five natural science areas. Students interested in secondary education, public health, and other fields may choose this degree.

STATE MANDATED COMMON COURSE PREREQUISITES

Students desiring to transfer to USF should complete an A.A. degree at a Florida College System institution. If students transfer with fewer than 60 semester hours of acceptable credit, the students must meet the University's entering freshman requirements including ACT or SAT test scores, GPA, and course requirements. Transfer students are also required to comply with the immunization, foreign language, and continuous enrollment policies of the university.

There are no State Mandated Common Prerequisites for this program.

REQUIREMENTS FOR THE MAJOR IN INTERDISCIPLINARY NATURAL SCIENCES

REQUIRED SUPPORTING COURSES FOR THE MAJOR: 0 HOURS

The following courses are prerequisite and supporting courses for this major. They are required for the major, but are not counted in the total hours for this major. The degree will not be awarded if these courses have not been taken by the end of the student’s final semester.

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 General Education and State Communication Requirement and State Computation Requirement courses.

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

- Biology I and II (BSC 2010, BSC 2010L, BSC 2011, BSC 2011L)
- Calculus I and II (MAC 2241 and MAC 2242 or MAC 2311 and MAC 2312 or MAC 2281 and MAC 2282)
General Chemistry I and II (CHM 2045, CHM 2045L, CHM 2046, CHM 2046L)

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

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

TOTAL MAJOR HOURS: 62-64

MAJOR REQUIREMENTS FOR THE B.S. DEGREE:

MAJOR CORE (38-40 HOURS)

Tier 1

Two introductory courses in each of the five (5) natural sciences areas: Mathematics, Physics, Chemistry, Biology, Geology. Choose from the following courses:

- **Mathematics Courses:**
  - MAC 2241 Life Sciences Calculus I
  - MAC 2311 and MAC 2312 are also acceptable for the major.
  - MAC 2241 Life Sciences Calculus II or STA 2023 Introductory Statistics I
  - MAC 2281 and MAC 2282 are also acceptable for the major.

- **Biology Courses:**
  - BSC 2010 Cellular Processes
  - BSC 2010L Cellular Processes Laboratory
  - BSC 2011 Biodiversity
  - BSC 2011L Biodiversity Laboratory

- **Chemistry Courses:**
  - CHM 2045 General Chemistry I
  - CHM 2045L General Chemistry I Laboratory
  - CHM 2046 General Chemistry II
  - CHM 2046L General Chemistry II Laboratory

- **Geology Courses:**
  - GLY 2010 Dynamic Earth: Introduction to Physical Geology
  - GLY 2000L Essentials of Geology Laboratory
  - GLY 2100 History of Life
  - GLY 2100L History of Life Laboratory

- **Physics Courses:**
  - PHY 2053 General Physics I and PHY 2053L General Physics I Laboratory
  - PHY 2054 General Physics II and PHY 2054L General Physics II Laboratory
  - PHY 2048 General Physics I - Calculus Based and PHY 2048L General Physics I - Calculus Based Laboratory and PHY 2049 General Physics II - Calculus Based and PHY 2049L General Physics II - Calculus Based Laboratory are also accepted for this major
  - PHY 2060 may substitute for PHY 2048 and PHY 2061 may substitute for PHY 2049.
MAJOR ELECTIVES (24 HOURS)

Tier 2

Students are required to complete a minimum total of 24 credit hours. A minimum of 6 credit hours of structured, upper-level (3000-level or higher) courses in three of the five natural sciences areas is required. The remaining six credits of upper-level courses can be taken in any of the three Tier 2 Natural Science areas that the student has selected. 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.

General Electives. Courses over and above the required courses should be taken to complete a 120 hour program. Additional courses in computer programming, economics, management, engineering, statistics, writing, and other applied disciplines are strongly recommended to strengthen the degree for subsequent professional employment.

Transfer Credit: It is strongly recommended that students transferring from community/state colleges to the University of South Florida complete whole sequences of chemistry courses, such as general and organic chemistry, before they transfer. Even though courses may carry the same common course number, topics covered may vary significantly from school to school.

D/F Policy: The following three departments, the Department of Chemistry, the Department of Cell Biology, Microbiology and Molecular Biology and the Department of Integrative Biology have instituted a procedure to provide students with the best opportunity to progress toward their degree requirements.

Effective Fall 2018, all students in the below listed programs must successfully complete the below science and math coursework without earning 3 D and/or F grades. Students unable to successfully complete these courses within these prescribed parameters will be required to select a different major and will not be permitted to take any additional courses offered by the below Departments/Divisions. In addition, registration for all courses offered by these departments will be dependent on students meeting the prescribed parameters regardless of their major.

Furthermore, any student who requests a change of major to one offered in the below identified departments will be required to meet these prescribed parameters as well as those criteria outlined in the Degree Progression Policy 10-505. Any continuing student who was previously forced to select a different major based on previous versions of this policy may now be eligible to pursue the majors listed below, but only if they meet both the criteria described here as well as the Degree Progression Policy 10-505 criteria. Students who are able to complete one of the below majors by earning fewer credit hours than required to complete any other major offered at USF may petition to request an exception and should contact the School of Natural Sciences and Mathematics Advising Office for instructions. Grade Forgiveness will NOT apply to the mandated requirement of changing majors.

Included Departments/Divisions:
Division of Health Professions Advising; Department of Chemistry; Department of Cell Biology, Microbiology and Molecular Biology; and Department of Integrative Biology.

Included courses:
BCH 3053 BSC 2010; BSC 2011; BSC 2085; BSC 2086; BSC 2093C; BSC 2094C; BSC 2932; CHM 2023; CHM 2045; CHM 2046; CHM 2210; CHM 2211; CHS 2440; MAT 1033; MAC 1105; MAC 1147; MAC 2241; MAC 2242; MAC 2281; MAC 2282; MAC 2311; MAC 2312; MCB 3020; PCB 3023; PCB 3063; PHY 2053; PHY 2054; PHY 2048; PHY 2049; PHY 2060; PHY 2061; STA 2023.

GRADING REQUIREMENT

A grade of C or better is required for science and mathematics courses and each supporting course for the Major. All courses in any chemistry major must be taken with letter grade (A, B, C, D, F, I) except those courses which are graded S/U only.

RESIDENCY REQUIREMENT

Twelve (12) hours of upper-level major applicable courses must be completed at USF for the Interdisciplinary Natural Sciences degree.
RESEARCH OPPORTUNITIES

The Department of Chemistry offers the opportunity for students to participate in undergraduate research with Chemistry faculty. Students can apply for the Academic Research Experience for Undergraduates (REU) Program and find more information here: http://chemistry.usf.edu/undergraduate/reu/. Students who wish to enroll in an undergraduate research course with a Chemistry faculty member should consult with their academic advisor to understand how the credit will apply towards the degree requirements. If no credit is needed, students may be eligible to enroll in a 0 credit research course. These courses will not impact degree credits or GPA but will show on an official transcript and document the experience. The Academic Advisors in the Department of Chemistry, as well as the Office for Undergraduate Research, can assist students in understanding the various course options.

ACCELERATED B.S./M.A.T. PROGRAM

Accelerated B.S. in Interdisciplinary Natural Sciences and M.A.T. in Science Education

This program intends for students to complete a B.S. in Interdisciplinary Natural Sciences (College of Arts and Sciences) and M.A.T. in Science Education (College of Education) over the span of five years. Students completing this program will be eligible for high school and/or middle school science teacher certification. Completion of this program requires students to complete 12 credit hours toward the M.A.T. in Science Education during their senior year in the Interdisciplinary Natural Sciences major.

ADVISING INFORMATION

Department of Chemistry Advising: chemadvise@usf.edu or http://chemistry.usf.edu/advising/.

INTERDISCIPLINARY NATURAL SCIENCES FACULTY


B.A. - INTERDISCIPLINARY SOCIAL SCIENCES (ISS)

(CIP = 45.0101)
TOTAL DEGREE HOURS: 120

http://iss.usf.edu/major_requirements/

Certified Global Pathway Program

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.

This program has been certified as a Global Pathway. Global Pathway programs have significant global content and align with the goals of USF’s Quality Enhancement Plan, the Global Citizens Project. Students in Global Pathway programs are well positioned to earn the Global Citizen Award and become eligible to apply for a study abroad scholarship offered by the Global Citizens Project.

STATE MANDATED COMMON COURSE PREREQUISITES

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 General Education 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.
Transfer students are also required to comply with the immunization, foreign language, and continuous enrollment policies of the university.

Students should complete the following prerequisite courses 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.

- XXX XXXX (6 credit hours) Two introductory courses in a Social Sciences discipline.

REQUIREMENTS FOR THE MAJOR IN INTERDISCIPLINARY SOCIAL SCIENCES

TOTAL MAJOR HOURS: 42

MAJOR REQUIREMENTS FOR THE B.A. DEGREE:

MAJOR CORE (13-18 HOURS)

Students in the ISS major complete a total of 42 credit hours of coursework in three categories:

- Major Core Requirements (9 credit hours)
- Diversity and Global Context Courses (4-9 credit hours)
- Two Concentrations Areas (24-29 credit hours)

Note: A minimum of 30 of the 42 hours must be at the 3000-level or above.

Required Core Courses (9 credit hours)

- ISS 3010 Introduction to the Social Sciences
- ISS 4935 Seminar in the Social Sciences
- STA 2122 Social Sciences Statistics

Note: A minimum grade of C- or higher is required for each of the major core courses.

Two of these courses, ISS 3010 Introduction to the Social Sciences and ISS 4935 Seminar in the Social Sciences, introduce and employ the interdisciplinary social science perspective. These courses involve students in the study of human life and experience; the various concepts, theories, and methods used in the social sciences; and the application of these concepts and methods to issues and questions of contemporary local and global significance. STA 2122 Social Science Statistics is the third core course required for majors in Interdisciplinary Social Sciences and teaches students to use quantitative reasoning to address social science issues of local and global concern.

Diversity and Global Context Courses (4-9 credit hours)

The remainder of the 42 hours of major coursework will be selected from courses in the following categories:

- Africana Studies (AFA or AFH or AFS prefixes. Those courses in the X900-X999 except for AFA 4900 will count)
- Disability Studies
  - SYO 4430 Disability and Society, ASL 3514 Deaf Culture, or Special Topics courses in other departments such as Women's and Gender Studies or Communication, approved by an advisor.
- International Studies (INR or CPO prefixes. Those courses in the X900-X999 except for INR 4900 and WST 4910 will count)
- Women's and Gender Studies (WST prefixes. Those courses in the X900-X999 except for WST 4900 and WST 4910 will count)
- Upper-Level Courses (3000- or 4000-level) with an ISS prefix

Note: If one or more of the student's areas of concentration require(s) more than 12 hours of coursework, fewer than 9 hours of coursework will be required in the Diversity and Global Context category.
MAJOR ELECTIVES (24-29 HOURS)

Concentrations (12-15 hours in each of two areas of concentration)

ISS students choose two concentration areas and complete at least twelve (12) credit hours in each concentration:

Africana Studies; Aging Sciences; American Studies; Anthropology; Communication; Communication Sciences and Disorders; Criminology; Deaf Studies; Economics; Environmental Science and Policy; Geography; History; Humanities; Information Studies; International Studies; Latin American, Caribbean, and Latino Studies; Mass Communications; Multidisciplinary Behavioral Sciences; Political Science; Psychology; Public Administration; Public Health; Religious Studies; Sociology; Women’s and Gender Studies.

GPA REQUIREMENTS

Students must maintain a minimum grade point average of 2.0 in ISS to graduate.

GRADING REQUIREMENT

No more than two grades of “D” are acceptable in the ISS major.

No transfer courses with grades of “D” are acceptable for credit in the ISS major.

A minimum grade of C- or higher is required for each of the major core courses.

OTHER REQUIREMENTS

ISS majors must satisfy two semesters of a foreign language in order to graduate. American Sign Language (ASL) satisfies the Foreign Language Exit Requirement (FLEX).

RESEARCH OPPORTUNITIES

All ISS majors participate in a Senior Research Project as part of the requirements for ISS 4935 Seminar in the Social Sciences. Other research opportunities may be provided in courses related to the student’s area of concentration or courses selected in the Diversity and Global Context category. ISS advisors can assist students in selecting courses that provide these research opportunities.

ADVISING INFORMATION

Upon declaration of the major, students should meet with an advisor to declare concentrations, particularly before too many courses are completed in the College of Arts and Sciences. No student should assume that courses already completed will automatically count toward the ISS degree.

INTERDISCIPLINARY SOCIAL SCIENCES FACULTY

Director: Sara Green.

AFRICANA STUDIES (IAFA) CONCENTRATION

http://iss.usf.edu/concentrations/

REQUIREMENTS FOR THE CONCENTRATION IN AFRICANA STUDIES

TOTAL CONCENTRATION HOURS: 42

CONCENTRATION CORE (12 HOURS)

Student should choose either Option 1 or Option 2.

Option 1:

- AFA 2000 Introduction to Black Experience
- Nine (9) credit hours of Upper-Level Major Electives (3000-4000)

Option 2:

- Twelve (12) credit hours of Upper-Level Major Electives (3000-4000)
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<tr>
<th>AGEING SCIENCES (IAGE) CONCENTRATION</th>
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<tr>
<td>REQUIREMENTS FOR THE CONCENTRATION IN AGEING SCIENCES</td>
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<td>TOTAL CONCENTRATION HOURS: 42</td>
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<tr>
<td>CONCENTRATION CORE (12 HOURS)</td>
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<tr>
<td>• GEY 2000 Introduction to Aging Sciences</td>
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<td>• Nine (9) credit hours of GEY Upper-Level Electives (3000-4000)</td>
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<tr>
<th>AMERICAN STUDIES (IAMS) CONCENTRATION</th>
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<tr>
<td>REQUIREMENTS FOR THE CONCENTRATION IN AMERICAN STUDIES</td>
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<td>TOTAL CONCENTRATION HOURS: 42</td>
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<tr>
<td>CONCENTRATION CORE (12 HOURS)</td>
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<tr>
<td>• AMS 2030 Introduction to American Studies or AMS 2270 Twentieth-Century American Culture</td>
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<td>• Nine (9) credit hours of AMS Upper-Level Major Electives (3000-4000)</td>
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<th>ANTHROPOLOGY (IANT) CONCENTRATION</th>
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<td>REQUIREMENTS FOR THE CONCENTRATION IN ANTHROPOLOGY</td>
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<td>TOTAL CONCENTRATION HOURS: 42</td>
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<td>CONCENTRATION CORE (12 HOURS)</td>
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<tr>
<td>• One of the following courses:</td>
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<tr>
<td>o ANT 2000 Introduction to Anthropology</td>
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<td>o ANT 2410 Cultural Anthropology</td>
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<tr>
<td>o ANT 2511 Biological Anthropology</td>
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<td>o ANT 3101 Archaeology</td>
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<tr>
<td>o ANT 3610 Linguistic Anthropology</td>
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<tr>
<td>• Nine (9) credit hours of ANT Upper-Level Electives (3000-4000)</td>
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<th>CRIMINOLOGY (ICCJ) CONCENTRATION</th>
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<tr>
<td>TOTAL CONCENTRATION HOURS: 42</td>
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<tr>
<td>CONCENTRATION CORE (12 HOURS)</td>
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<tr>
<td>• CCJ 3024 Survey of the Criminal Justice System</td>
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<td>• CCJ 3117 Theories of Criminal Behavior</td>
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<tr>
<td>• Six (6) credit hours of Upper-Level Major Electives (3000-4000)</td>
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MASS COMMUNICATIONS (ICOM) CONCENTRATION

http://iss.usf.edu/concentrations/

REQUIREMENTS FOR THE CONCENTRATION IN MASS COMMUNICATIONS

TOTAL CONCENTRATION HOURS: 42

CONCENTRATION CORE (3 HOURS)

- MMC 3602 Mass Communications and Society

Concentration Electives (9 hours)

Choose three (3) courses from the following list:

- ADV 3008 Introduction to Advertising
- MMC 4200 History and Principles of Communications Law
- MMC 4203 Communication Ethics
- MMC 4420 Research Methods in Mass Communications
- MMC 4936 Selected Topics in Mass Communications Studies
- PUR 3000 Principles of Public Relations
- RTV 3001 Introduction to Telecommunications
- RTV 4542 TV Production and Direction
- VIC 3001 Introduction to Visual Communications

COMMUNICATION SCIENCES AND DISORDERS (ICSD) CONCENTRATION

http://iss.usf.edu/concentrations/

REQUIREMENTS FOR THE CONCENTRATION IN COMMUNICATION SCIENCES AND DISORDERS

TOTAL CONCENTRATION HOURS: 42

CONCENTRATION CORE (12 HOURS)

Students should choose four (4) courses from the following list:

- SPA 3002 Introduction to Communication Sciences and Disorders
- SPA 3004 Introduction to Language Development and Disorders
- SPA 3011 Introduction to Speech Science
- SPA 3030 Introduction to Hearing Science
- SPA 3101 Anatomy and Physiology of the Speech and Hearing Mechanism
- SPA 3112 Applied Phonetics in Communication Disorders
- SPA 3310 Introduction to Disorders of Hearing
- SPA 3470 Culture and Diversity in CSD
- SPA 4901 Research Methods in Communication Sciences and Disorders
DEAF STUDIES (IDFT) CONCENTRATION

http://iss.usf.edu/concentrations/

REQUIREMENTS FOR THE CONCENTRATION IN DEAF STUDIES

TOTAL CONCENTRATION HOURS: 42

CONCENTRATION CORE (14 HOURS)

- ASL 2140C Basic American Sign Language
- ASL 2150C Intermediate American Sign Language
- ASL 3514 Deaf Culture
- SYO 4430 Disability and Society or Upper-Level ASL or INT course (3000-4000)

ECONOMICS (IECO) CONCENTRATION

http://iss.usf.edu/concentrations/

REQUIREMENTS FOR THE CONCENTRATION IN ECONOMICS

TOTAL CONCENTRATION HOURS: 42

CONCENTRATION CORE (12 HOURS)

- ECO 2013 Economic Principles (Macroeconomics)
- ECO 2023 Economic Principles (Microeconomics)
- Six (6) credit hours of Upper-Level Major Electives (3000-4000)

ENVIRONMENTAL SCIENCE AND POLICY (IESP) CONCENTRATION

http://iss.usf.edu/concentrations/

REQUIREMENTS FOR THE CONCENTRATION IN ENVIRONMENTAL SCIENCE AND POLICY

TOTAL CONCENTRATION HOURS: 42

CONCENTRATION CORE (13 HOURS)

- EVR 2001 Introduction to Environmental Science
- EVR 2001L Environmental Science Lab
- EVR 2861 Introduction to Environmental Policy
- EVR 4033 Environmental Regulation
- GEO 4372 Global Conservation

GEOGRAPHY (IGPY) CONCENTRATION

http://iss.usf.edu/concentrations/

REQUIREMENTS FOR THE CONCENTRATION IN GEOGRAPHY

TOTAL CONCENTRATION HOURS: 42

CONCENTRATION CORE (10 HOURS)

- GEO 2200 Introduction to Physical Geography
### GEO 3006 Mapping and Geovisualization

**Concentration Electives (2 hours)**
- Two (2) credit hours of Upper-Level Major Electives (3000-4000)

### Humanities (IHSC) Concentration

- [Link](http://iss.usf.edu/concentrations/)

#### Requirements for the Concentration in Humanities

**Total Concentration Hours: 42**

**Concentration Core (12 Hours)**
- Three (3) credit hours of HUM Lower-Level Electives (2000) or Approved Equivalents
- Nine (9) credit hours of HUM Upper-Level Electives (3000-4000)

### History (IHTY) Concentration

- [Link](http://iss.usf.edu/concentrations/)

#### Requirements for the Concentration in History

**Total Concentration Hours: 42**

**Concentration Core (12 Hours)**
- Twelve (12) credit hours of Upper-Level Major Electives (3000-4000)

### Information Studies (IIFS) Concentration

- [Link](http://iss.usf.edu/concentrations/)

#### Requirements for the Concentration in Information Studies

**Total Concentration Hours: 42**

**Concentration Core (12 Hours)**
- LIS 2937 Selected Topics in Library/Information Science or Approved Lower-Level LIS Elective (2000)
- LIS 3361 World Wide Web Page Design and Management
- Six (6) credit hours of LIS Upper-Level Electives (3000-4000)

### International Studies (IINT) Concentration

- [Link](http://iss.usf.edu/concentrations/)

#### Requirements for the Concentration in International Studies

**Total Concentration Hours: 42**

**Concentration Core (12 Hours)**
- 12 credit hours of Upper-Level Major Electives (3000-4000)
LATIN AMERICAN, CARIBBEAN, AND LATINO STUDIES (ILAS) CONCENTRATION
http://iss.usf.edu/concentrations/

REQUIREMENTS FOR THE CONCENTRATION IN LATIN AMERICAN, CARIBBEAN, AND LATINO STUDIES

TOTAL CONCENTRATION HOURS: 42

CONCENTRATION CORE (12 HOURS)

- Twelve (12) credit hours of Upper-Level coursework relating to Latin America, the Caribbean, or the Latino/Latina diaspora selected from at least four of the following areas:
  - Anthropology/Sociology/Philosophy
  - Political Science/International Studies
  - Geography/History
  - Education/Social Work
  - Global Studies/Public Health

Note: Coursework must be approved by an advisor and at least 50% of the graded assignments in the selected course must be related to Latin America, the Caribbean, or the Latino/Latina diaspora.

MULTIDISCIPLINARY BEHAVIORAL SCIENCES (IMDS) CONCENTRATION
http://iss.usf.edu/concentrations/

REQUIREMENTS FOR THE CONCENTRATION IN MULTIDISCIPLINARY BEHAVIORAL SCIENCES

TOTAL CONCENTRATION HOURS: 42

CONCENTRATION CORE (12 HOURS)

- MHS 3411 Multidisciplinary Behavioral Healthcare Services
- MHS 4002 Behavioral Health Systems Delivery
- MHS 4408 Exemplary Practices in Behavioral Healthcare Treatment
- One of the following courses:
  - MHS 4425 Field Experience in Behavioral Healthcare
  - MHS 4906 Directed Study
  - MHS 4931 Selected Topics

PUBLIC ADMINISTRATION (IPAD) CONCENTRATION
http://iss.usf.edu/concentrations/

REQUIREMENTS FOR THE CONCENTRATION IN PUBLIC ADMINISTRATION

TOTAL CONCENTRATION HOURS: 42

CONCENTRATION CORE (12 HOURS)

- Twelve (12) credit hours of Upper-Level Major Electives (3000-4000)
# Political Science (IPOL) Concentration

[http://iss.usf.edu/concentrations/](http://iss.usf.edu/concentrations/)

## Requirements for the Concentration in Political Science

**Total Concentration Hours: 42**

**Concentration Core (12 Hours)**

- POS 2041 American National Government
- Nine (9) credit hours of Upper-Level Major Electives (3000-4000)

# Psychology (IPSY) Concentration

[http://iss.usf.edu/concentrations/](http://iss.usf.edu/concentrations/)

## Requirements for the Concentration in Psychology

**Total Concentration Hours: 42**

**Concentration Core (12 Hours)**

- PSY 3213 Research Methods in Psychology
- Nine (9) credit hours of Upper-Level Major Electives (3000-4000)

# Public Health (IPUB) Concentration

[http://iss.usf.edu/concentrations/](http://iss.usf.edu/concentrations/)

## Requirements for the Concentration in Public Health

**Total Concentration Hours: 42**

**Concentration Core (12 Hours)**

- HSC 4537 Medical Terminology
- HSC 4551 Survey of Human Diseases
- PHC 4030 Introduction to Epidemiology
- PHC 4101 Overview of Public Health Programs and Policies

**Concentration Electives (3 Hours)**

Choose one (1) course from the following list:

- 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
- HSC 4172 Women's Health: A Public Health Perspective
- HSC 4213 Environmental and Occupational Risk Analysis
- HSC 4430 Occupational Health and Safety
- HSC 4504 Foundations of Public Health Immunology
- HSC 4573 Foundations of Food Safety
- HSC 4579 Foundations of Maternal and Child Health
- HSC 4933 Special Topics in Public Health
- HUN 3272 Sports Nutrition
- HUN 3296 Nutrition and Disease
- PHC 3320 Environmental Health Science
- PHC 4031 Emerging Infectious Diseases
- PHC 4188 Public Health Emergencies in Large Populations
- PHC 4234 Public and Private Continuity Planning for Emergencies
- PHC 4241 Psychology of Fear & Mental Health Issues Related to Disasters
- PHC 4375 Community Participation in Homeland Security
- PHC 4376 Disaster by Design: Exercise Development for Homeland Security Professionals
- PHC 4931 Health Care Ethics

**RELIGIOUS STUDIES (IREL) CONCENTRATION**

http://iss.usf.edu/concentrations/

**REQUIREMENTS FOR THE CONCENTRATION IN RELIGIOUS STUDIES**

**TOTAL CONCENTRATION HOURS: 42**

**CONCENTRATION CORE (12 HOURS)**

- REL 3040 Introduction to Religious Studies
- Nine (9) credit hours of REL Electives, of which six (6) credit hours must be upper-level (3000-4000)

**SOCIOLGY (ISOC) CONCENTRATION**

http://iss.usf.edu/concentrations/

**REQUIREMENTS FOR THE CONCENTRATION IN SOCIOLOGY**

**TOTAL CONCENTRATION HOURS: 42**

**CONCENTRATION CORE (12 HOURS)**

- SYG 2000 Introduction to Sociology or Upper-Level Elective in Sociology (3000-4000)
- SYA 3110 Classical Theory
- SYA 3300 Research Methods or SYA 3310 Qualitative Inquiry
- Three (3) credit hours of Sociology Upper-Level Electives (3000-4000)

Students choosing this concentration may take SYA 4935 Senior Seminar in place of ISS 4935 Seminar in the Social Sciences.
COMMUNICATION (ISPE) CONCENTRATION

http://iss.usf.edu/concentrations/

REQUIREMENTS FOR THE CONCENTRATION IN COMMUNICATION

TOTAL CONCENTRATION HOURS: 42

CONCENTRATION CORE (12 HOURS)

- COM 2000 Introduction to Communication
- Choose one of the following courses:
  - ORI 3004 Communication as Performance
  - SPC 3301 Interpersonal Communication
  - SPC 3544 Persuasion and Media
  - SPC 3710 Communication and Cultural Diversity
- Six (6) credit hours of COM, SPC, or ORI Upper-Level Electives (3000-4000)

WOMEN’S AND GENDER STUDIES (IWGS) CONCENTRATION

http://iss.usf.edu/concentrations/

REQUIREMENTS FOR THE CONCENTRATION IN WOMEN’S AND GENDER STUDIES

TOTAL CONCENTRATION HOURS: 42

CONCENTRATION CORE (12 HOURS)

- WST 3015 Introduction to Women’s Studies or WST 3311 Issues in Feminism
- Nine (9) credit hours of Upper-Level Electives (3000-4000) offered by the Department of Women’s and Gender Studies

B.A. - INTERNATIONAL STUDIES (INT)

(CIP = 45.0901)

TOTAL DEGREE HOURS: 120

http://usf.edu/sigs/undergraduate/

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.

STATE MANDATED COMMON COURSE PREREQUISITES

Students desiring to transfer to USF should complete an A.A. degree at a Florida College System institution. If students transfer with fewer than 60 semester hours of acceptable credit, the students must meet the University's entering freshman requirements including ACT or SAT test scores, GPA, and course requirements. Transfer students are also required to comply with the immunization, foreign language, and continuous enrollment policies of the university.

There are no State Mandated Common Prerequisites for this program.
REQUIREMENTS FOR THE MAJOR IN INTERNATIONAL STUDIES

TOTAL MAJOR HOURS: 36

MAJOR REQUIREMENTS FOR THE B.A. DEGREE:

MAJOR CORE (18 HOURS)

The major consists of a minimum of 36 credit hours. At least 27 of these credit hours (nine courses) must be from the International Studies Program offerings.

- INR 3011 Globalization
- INR 4083 Conflict in the World
- INR 3038 International Wealth and Power or CPO 4034 Politics of the Developing Areas
- INR 3202 International Human Rights or INR 4502 International Organizations
- Two (2) area studies courses from the INT upper-division electives (3 credit hours each)

MAJOR ELECTIVES (18 HOURS)

The additional 18 credit hours must include at least three elective courses (9 credit hours) from within the International Studies discipline offered in the School of Interdisciplinary Global Studies; the remaining 9 credit 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. Please see the International Studies advisor for a full list of courses to meet the INT elective requirements.

With the approval of the major advisor, credits earned in INR 4900 and INR 4910 may be used to augment or substitute for the foregoing requirements.

Students 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 are encouraged, but not required, to engage in study abroad programs, a large number of which have been approved by the USF Education Abroad Department. Credits earned in such programs apply toward graduation and many also apply to the International Studies major. A limited number of internships in the Tampa Bay area are available to provide students with real-world experience while earning credits in the major. Also, USF is affiliated with The Washington Center, an internship program in the nation’s Capital.

RESIDENCY REQUIREMENT

Students transferring credit hours toward a major in International Studies must complete a minimum of 21 credit hours within the School of Interdisciplinary Global Studies, regardless of the number of credits transferred.

RESEARCH OPPORTUNITIES

All undergraduate students in any degree program can participate in undergraduate research. There are a number of options to receive academic credit for a mentored research experience and to have the experience show on the official transcript. Students who wish to enroll in an undergraduate research course should consult with their academic advisor to understand how the credit will apply towards the degree requirements. If no credit is needed, students may be eligible to enroll in the 0-credit IDS 2912, IDS 4914 or IDH 4910 courses. These courses will not impact degree credits or GPA but will show on an official transcript and document the experience. The Office of Undergraduate Research will assist students in understanding the various course options.
INTERNSHIP OPPORTUNITIES

The School of Interdisciplinary Global Studies encourages students majoring in International Studies to complete an internship as part of their undergraduate degree program. While an internship is not required for the degree, it does provide the student with valuable, real world experience that can assist the student in preparation for a career after finishing the International Studies degree. The School of Interdisciplinary Global Studies allows up to 6 credits of paid or unpaid internship with an appropriate international focus to count as an INT elective. In order to qualify for credit, the internship does need to be approved by the International Studies Internship faculty advisor. Additionally, in order to earn credit for the internship, students will be required to register for INR 4943 Internship in International Studies and complete all requirements for this course in order to earn credit. For more information, please visit http://usf.edu/sigs/undergraduate/.

ADVISING INFORMATION

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.

For information on INT Advising, please visit http://usf.edu/sigs/undergraduate/.

INTERNATIONAL STUDIES FACULTY


B.S. - MARINE BIOLOGY (MRN)

(CIP = 26.0101 - TRACK 1 OF 2)
TOTAL DEGREE HOURS: 120

http://biology.usf.edu/ib/ug/bs/

Students majoring in Marine Biology study life in the oceans. The program of study explores the unique marine environment and the nature of the organisms that inhabit the oceans. The objective of the program is to provide students with a firm foundation in basic biology and the tools necessary to function as professional biologists, with special emphasis on marine ecosystems. The program will prepare students for further education (e.g., ecology, environmental science, biological oceanography, evolutionary biology) or for careers in fields such as aquaculture, aquarium biology and education, conservation biology and education, environmental consulting, and wildlife biology.

STATE MANDATED COMMON COURSE PREREQUISITES

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 General Education 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.

Transfer students are also required to comply with the immunization, foreign language, and continuous enrollment policies of the university.

Students should complete the following prerequisite courses 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 in prerequisite courses.

- BSC X010/X010L Biology I with Lab or BSC X010C or BSC X040/X040L or BSC X040C
- BSC X011/X011L Biology II with Lab or BSC X011C or BSC X041/X041L or ZOO X010/X010L or BOT X010/X010L or BOT X013/X013L or BSC X041C or ZOO X010C or BOT X010C or BOT X013C
• CHM X045/X045L General Chemistry I with Lab or CHM X045C or CHM X040 and CHM X041
• CHM X046/X046L General Chemistry II with Lab or CHM X046C
• CHM X210/X210L Organic Chemistry I with Lab and CHM X211/X211L or (CHM X210C and CHM X211C) or [PHY X053 and (PHY X053L or PHY X048L) and PHY X054 and (PHY X054L or PHY X049L)] or PHY X048/X048L and PHY X049/X049L
• MAC X311 Calculus I or MAC X233 or MAC X253 or MAC X281 or MAC X241
• MAC X312 Calculus II or MAC X282 or MAC X234 or STA X023 or STA X024 or STA X321

REQUIREMENTS FOR THE MAJOR IN MARINE BIOLOGY

REQUIRED SUPPORTING COURSES FOR THE MAJOR: 32-34 HOURS

The following courses are prerequisite and supporting courses for this major. They are required for the major, but are not counted in the total hours for this major. The degree will not be awarded if these courses have not been taken by the end of the student’s final semester.

- CHM 2045 and CHM 2045L General Chemistry I and Laboratory
- CHM 2046 and CHM 2046L General Chemistry II and Laboratory
- CHM 2210 and CHM 2210L Organic Chemistry I and Laboratory
- CHM 2211 and CHM 2211L Organic Chemistry II and Laboratory
- Calculus I: MAC 2241 or MAC 2311 or MAC 2281
- Statistics or Calculus II: STA 2023 or MAC 2242 or MAC 2312 or MAC 2282
- One of the Physics Sequences:
  - PHY 2053/2053L General Physics I and PHY 2054/2054L General Physics II
  - PHY 2048/2048L General Physics I - Calculus Based and PHY 2049/2049L General Physics II - Calculus Based
    - PHY 2060 may substitute for PHY 2048 and PHY 2061 may substitute for PHY 2049.

Students must receive a C- or better to meet requirements for degree (for progression in Math and CHM, a C is required).

TOTAL MAJOR HOURS: 37-41

MAJOR REQUIREMENTS FOR THE B.S. DEGREE:

MAJOR CORE (24-26 HOURS)

- BSC 2010 Cellular Processes
- BSC 2010L Cellular Processes Laboratory
- BSC 2011 Biodiversity
- BSC 2011L Biodiversity Laboratory
- BSC 3312 Marine Biology
- BSC 4937 Seminar in Marine Biology
- PCB 3043 Principles of Ecology
- PCB 3043L Principles of Ecology Laboratory
- PCB 3063 General Genetics
- PCB 3063L General Genetics Laboratory
Choose one of the following:
- BOT 3373C Vascular Plants: Form and Function
- BSC 4933 Selected Topics in Biology*
- MCB 3020 and MCB 3020L General Microbiology and Laboratory
- ZOO 3205C Advanced Invertebrate Zoology
- ZOO 3713C Comparative Vertebrate Anatomy

*Special topics as approved for the major by the Department of Integrative Biology

MAJOR ELECTIVES (13-15 HOURS)

Students choose 13-15 credit hours of coursework from the following list:
- BCH 4033 Advanced Biochemistry I
- BOT 3373C Vascular Plants: Form and Function
- BOT 4184C Biology of Coastal Plants
- BSC 4313C Advanced Marine Biology
- BSC 4933 Special Topics in Biology*
- GIS 4043C Geographic Information Systems or GIS 5049 GIS for Non-Majors
- GLY 4734 Beaches and Coastal Environments
- MCB 3020 General Microbiology
- MCB 3020L General Microbiology Laboratory
- MCB 4404 Microbial Physiology and Genetics and MCB 4404L Microbial Physiology and Genetics Laboratory
- PCB 3712 General Physiology and PCB 3713L General Physiology Laboratory
- PCB 4674 Organic Evolution
- PCB 4723 Animal Physiology and PCB 4723L Animal Physiology Laboratory
- ZOO 3205C Advanced Invertebrate Zoology
- ZOO 3407 Biology of Sharks and Rays and ZOO 3407L Biology of Sharks and Rays Laboratory
- ZOO 4454 Fish Biology and ZOO 4454L Fish Biology Laboratory
- ZOO 4513 Animal Behavior

*Special topics as approved for the major by the Department of Integrative Biology

Note: Course taken to fulfill structure requirement cannot also apply toward electives

Effective Fall 2018, all students in the below listed programs must successfully complete the below science and math coursework without earning 3 D and/or F grades. Students unable to successfully complete these courses within these prescribed parameters will be required to select a different major and will not be permitted to take any additional courses offered by the below Departments/Divisions. In addition, registration for all courses offered by these departments will be dependent on students meeting the prescribed parameters regardless of their major.

Furthermore, any student who requests a change of major to one offered in the below identified departments will be required to meet these prescribed parameters as well as those criteria outlined in the Degree Progression Policy 10-505. Any continuing student who was previously forced to select a different major based on previous versions of this policy may now be eligible to pursue the majors listed below, but only if they meet both the criteria described here as well as the Degree Progression Policy 10-505 criteria. Students who are able to complete one of the below majors by earning fewer credit hours than required to complete any other major offered at USF may petition to request an exception and should contact the School of Natural Sciences and Mathematics Advising Office for instructions. Grade Forgiveness will NOT apply to the mandated requirement of changing majors.
Included Departments/Divisions:
Division of Health Professions Advising; Department of Chemistry; Department of Cell Biology, Microbiology and Molecular Biology; and Department of Integrative Biology.

Included courses:
BCH 3053 BSC 2010; BSC 2011; BSC 2085; BSC 2086; BSC 2093C; BSC 2094C; BSC 2932; CHM 2023; CHM 2045; CHM 2046; CHM 2210; CHM 2211; CHS 2440; MAT 1033; MAC 1105; MAC 1147; MAC 2241; MAC 2242; MAC 2281, MAC 2282; MAC 2311; MAC 2312; MCB 3020; PCB 3023; PCB 3063; PHY 2053; PHY 2054; PHY 2048; PHY 2049; PHY 2060; PHY 2061; STA 2023.

A minimum of 8 credit hours at the 4000-level should be taken.
A maximum of 6 credit hours may be taken outside of the department with prior approval.

COURSE GRADE REQUIREMENT
Please note that some supporting science courses may require a grade of C or better in order to meet the prerequisite requirements for course sequences.

GRADING REQUIREMENT
A student must receive a C-grade or better in all Department of Integrative Biology and Department of Cell Biology, Microbiology, and Molecular Biology courses and supporting courses in the natural sciences, except if they are used as general elective courses. This specification applies to both USF and transfer courses.

RESIDENCY REQUIREMENT
A minimum of 20 credits hours of courses must be taken in residency and be applicable to the major.
Once a student has matriculated to USF Tampa, he/she is expected to take 100 percent of the required major coursework at USF Tampa.

RESEARCH OPPORTUNITIES
Undergraduate research is a great way to get hands-on experience in what you are studying and learning in your courses, and even to advance biological knowledge. Many students have authored articles based on their participation in on-going research in the Department. Undergraduate research also is a great way to boost your resume and to enhance your application to graduate school or health professional school. Several ways are available to get involved; see http://biology.usf.edu/ib/ug/research/.

To be eligible to receive credit for undergraduate research (BSC 4910), students must have Junior standing, a 3.0 USF GPA, and a 3.0 major GPA. A maximum of 4 credit hours BSC 4910 may be applied to the major electives; see http://biology.usf.edu/bioadvise/ug-research/credit.aspx.

ACCELERATED B.S./M.A.T. PROGRAM
Accelerated B.S. in Marine Biology and M.A.T. in Science Education
This program intends for students to complete a B.S. in Marine Biology (College of Arts and Sciences) and M.A.T. in Science Education (College of Education) over the span of five years. Students completing this program will be eligible for high school and/or middle school science teacher certification. Completion of this program requires students to complete 12 credit hours toward the M.A.T. in Science Education during their senior year in the Marine Biology major.

ADVISING INFORMATION
BioAdvise: Science Center (SCA) 203; (813) 974-3250
http://biology.usf.edu/bioadvise/
Email: bioadvise@usf.edu
COLLEGE OF ARTS & SCIENCES

UNIVERSITY OF SOUTH FLORIDA 2019-20 UNDERGRADUATE CATALOG

MARINE BIOLOGY FACULTY


B.A. - MASS COMMUNICATIONS (COM)
(CIP = 09.0102)
TOTAL DEGREE HOURS: 124
http://masscom.usf.edu/ug/ba/

The Bachelor of Arts in Mass Communications is a pre-professional, hands-on program that allows students to be prepared for careers in Advertising, Public Relations, and Multimedia Journalism.

LIMITED ACCESS

THIS MAJOR HAS ADDITIONAL ADMISSIONS REQUIREMENTS AS LISTED IN THIS SECTION.

This is a limited access program.

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 ENC 1102 with a minimum grade of C not C-
3. Minimum of 30 hours (including at least 15 semester hours for which grades and a grade point average have been awarded)
4. Minimum score of 60 percent (120 out of a possible 200 points) on the Mass Communications English Diagnostic Test OR 70 percent (140 out of a possible 200 points) for students who transfer MMC 2100 or its equivalent

All majors must complete MMC 2100 Writing for the Media, and MMC 3602 Mass Communications and Society, with a minimum grade of C not C- before any other Mass Communications course may be taken. Students failing to achieve a minimum grade of C not C- in both MMC 2100 and MMC 3602 will be disallowed as majors in the School.

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 and State Communication Requirement and State Computation Requirement courses.

- English Composition (minimum grade of C not C-)
- MMC 3602 Mass Communications and Society

Prior to being admitted to the School of Mass Communications, a student must:

1. Complete a minimum of 30 semester hours including all General Education requirements and six hours of English composition (with a minimum grade of C not C-),
2. Earn a 2.75 overall GPA,
3. Pass a School-administered English Diagnostic Test.

A maximum of nine (9) semester hours in Mass Communications courses will be accepted from a community college or other lower-level program toward a degree in Mass Communications. It is suggested that the nine hours include the equivalent of the School core curriculum and one sequence introductory course. Approval by an appropriate advisor is required.

Students must complete 18 semester hours (may not include ENC or LIT prefix courses) outside the Mass Communications curriculum and beyond the 36 hours of general education requirements prior to entering the university. If these courses are not taken at the community college, they must be completed before the degree is granted. A grade of C (not C-) is the minimum acceptable grade.
STATE MANDATED COMMON COURSE PREREQUISITES

Students wishing to transfer to USF should complete an A.A. degree at a Florida College System institution. Some courses required for the major may also meet Foundations of Knowledge and Learning General Education Requirements thereby transferring maximum hours to the university. If students transfer with fewer than 60 semester hours of acceptable credit, the students must meet the university's entering freshman requirements including ACT or SAT test scores, GPA, and course requirements.

Students are strongly encouraged to select required lower division electives that will enhance their general education coursework and that will support their intended baccalaureate degree program. Students should consult with an academic advisor in their major degree area.

REQUIREMENTS FOR THE MAJOR IN MASS COMMUNICATIONS

TOTAL MAJOR HOURS: 43-55

MAJOR REQUIREMENTS FOR THE B.A. DEGREE:

MAJOR CORE (6 HOURS)

The Mass Communications major requires six (6) hours of core curriculum courses (MMC 2100 and MMC 3602) and 31 hours of required and elective sequence courses for a total of 37 hours in Mass Communications within the 124-hour degree requirement. Six hours in Mass Communications writing courses (three hours in addition to MMC 2100) are a part of the graduation requirement.

- 80 hours in courses outside the School of Mass Communications, including 65 hours in liberal arts courses (as approved by the School).
- No more than 44 hours of Mass Communications courses may be applied toward the bachelor's degree within the 124-hour graduation requirement.
- MMC 2100 Writing for the Mass Media
- MMC 3602 Mass Communication and Society

GPA REQUIREMENTS

A 2.5 GPA in Mass Communications courses is required for graduation.

GRADING REQUIREMENT

No student may graduate with a grade lower than C (2.0) not C- in any Mass Communications course.

RESIDENCY REQUIREMENT

At least 22 hours of resident School courses are required.

OTHER REQUIREMENTS

Sign Language may be used as an option by Mass Communications majors to fulfill the language requirement.

RESEARCH OPPORTUNITIES

All undergraduate students in any degree program can participate in undergraduate research. There are a number of options to receive academic credit for a mentored research experience and to have the experience show on the official transcript. Students who wish to enroll in an undergraduate research course should consult with their academic advisor to understand how the credit will apply towards the degree requirements. If no credit is needed, students may be eligible to enroll in the 0-credit IDS 2912, IDS 4914 or IDH 4910 courses. These courses will not impact degree credits or GPA but will show on an official transcript and document the experience. The Office of Undergraduate Research will assist students in understanding the various course options.
OTHER INFORMATION

Most Mass Communications courses have prerequisites as specified in the course descriptions (these prerequisites are separate from the State Mandated Common Prerequisites for program admission listed below). Refer to each prerequisite listed to determine progressive prerequisites for each course. Students should also note that the Mass Communications major is a four-semester program at a minimum and the majority of courses are offered only during the day.

All material submitted by students as assignments in writing, reporting, editing, photography and electronic news gathering and production classes is subject to publication or broadcast. The School uses a variety of online, print and electronic media outlets.

MASS COMMUNICATIONS FACULTY


ADVERTISING (ADV) CONCENTRATION

REQUIREMENTS FOR THE CONCENTRATION IN ADVERTISING

TOTAL CONCENTRATION HOURS: 43

CONCENTRATION CORE (34 HOURS)

Required Courses (22 credit hours):
- 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
- ADV 4940 Advertising Internship
- MMC 4200 History and Principles of Communications Law or MMC 4203 Communication Ethics

Specialization Courses (6 credit hours):
- Students choose one specialization from below:
  - Creative Specialization (students are required to take two courses in this specialization area)
    - ADV 4204 Advanced Advertising Creativity (required)
    - ADV 4710 Portfolio Building
  - Media Specialization (students are required to take two courses in this specialization area)
    - ADV 4301 Advanced Media Strategy (required)
    - ADV 4310 Digital Media

Other Requirements (6 credit hours):

The following courses are required outside the School to complete sequence requirements:
- ECO 1000 Basic Economics
- MAR 3023 Basic Marketing
Concentration Electives (3 hours)

Electives Requirements: (choose one course)

- JOU 2100 Beginning Reporting
- PUR 3000 Principles of Public Relations
- RTV 3001 Introduction to Telecommunications
- MMC 4936 Selected Topics in Mass Communications Studies*
- Any other Mass Communication course in which prerequisites are met

*Please see the academic advisor for appropriate selected topics courses.

ADVISING INFORMATION

Daniel Shelnutt, Academic Advisor

JOURNALISM-NEWS-EDITORIAL (JOU) CONCENTRATION

REQUIREMENTS FOR THE CONCENTRATION IN JOURNALISM-NEWS-EDITORIAL

TOTAL CONCENTRATION HOURS: 52

CONCENTRATION CORE (36 HOURS)

Required Courses (21 credit hours):

- JOU 2100 Beginning Reporting
- JOU 3101 Advanced Reporting
- JOU 4181 Public Affairs Reporting
- JOU 4201 News Editing I
- MMC 4200 History and Principles of Communications Law
- MMC 4203 Communication Ethics
- JOU 4213 Newspaper and News Publication Design or PGY 3610C Photojournalism I

Other Requirements (15 credit hours):

The following courses are required outside the School to complete sequence requirements:

- ECO 1000 Basic Economics
- PHI 1103 Critical Thinking
- POS 2041 American National Government
- SYG 2010 Contemporary Social Problems
- POS 2112 State and Local Government and Politics or POS 3142 Intro to Urban Politics & Government

Concentration Electives (10 hours)

- Ten (10) credit hours, selected with advisor’s approval

ADVISING INFORMATION

Daniel Shelnutt, Academic Advisor
JOURNALISM-MAGAZINE (MAG) CONCENTRATION

REQUIREMENTS FOR THE CONCENTRATION IN JOURNALISM-MAGAZINE

TOTAL CONCENTRATION HOURS: 55

CONCENTRATION CORE (42 HOURS)

Required Courses (24 credit hours):
- JOU 2100 Beginning Reporting
- JOU 3101 Advanced Reporting
- JOU 3308 Magazine Article and Feature Writing
- JOU 4201 News Editing I
- JOU 4212 Magazine Design and Production
- MMC 4200 History and Principles of Communications Law
- MMC 4203 Communication Ethics
- MMC 4420 Research Methods in Mass Communications

Other Requirements (18 credit hours):
The following courses are required outside the School to complete sequence requirements:
- ECO 1000 Basic Economics
- CRW 2100 Narration and Description or ENC 3250 Professional Writing
- PHI 1103 Critical Thinking
- POS 2041 American National Government
- SYG 2010 Contemporary Social Problems
- POS 2112 State and Local Government and Politics or POS 3142 Intro to Urban Politics and Government

Concentration Electives (7 hours)
- Seven (7) credit hours, selected with advisor’s approval

ADVISING INFORMATION

Daniel Shelnutt, Academic Advisor

BROADCAST NEWS (NWS) CONCENTRATION

REQUIREMENTS FOR THE CONCENTRATION IN BROADCAST NEWS

TOTAL CONCENTRATION HOURS: 49

CONCENTRATION CORE (33 HOURS)

Required Courses (21 credit hours):
- JOU 4181 Public Affairs Reporting
- MMC 4200 History and Principles of Communications Law
- MMC 4420 Research Methods in Mass Communications
- RTV 3001 Introduction to Telecommunications
• RTV 3301 Broadcast News
• RTV 4304 TV News
• RTV 4321 Electronic Field Production

Other Requirements (12 credit hours):
The following courses are required outside the School to complete sequence requirements:
• PHI 1103 Critical Thinking
• POS 2041 American National Government
• SPC 2608 Public Speaking
• POS 2112 State and Local Government and Politics or POS 3142 Introduction to Urban Politics and Government

Concentration Electives (10 hours)
• Ten (10) credit hours of elective courses, selected with advisor’s approval.

ADVISING INFORMATION
Daniel Shelnutt, Academic Advisor

BROADCAST-PROGRAM AND PRODUCTION (PGM) CONCENTRATION

REQUIREMENTS FOR THE CONCENTRATION IN BROADCAST-PROGRAM AND PRODUCTION

TOTAL CONCENTRATION HOURS: 43

CONCENTRATION CORE (27 HOURS)

Required Courses (21 credit hours):
• MMC 4200 History and Principles of Communications Law
• RTV 2100 Writing for Radio and TV
• RTV 3001 Introduction to Telecommunications
• RTV 3301 Broadcast News
• RTV 4542 TV Production and Direction
• RTV 4321 Electronic Field Production
• RTV 4500 Telecommunications Programming and Management

Other Requirements (6 credit hours):
The following courses are required outside the School to complete sequence requirements:
• PHI 1103 Critical Thinking
• CRW 2100 Narration and Description or ENC 3310 Expository Writing or ENC 3250 Professional Writing

Concentration Electives (10 hours)
• Ten (10) credit hours, selected with advisor’s approval
PUBLIC RELATIONS (PUR) CONCENTRATION

REQUIREMENTS FOR THE CONCENTRATION IN PUBLIC RELATIONS

TOTAL CONCENTRATION HOURS: 55

CONCENTRATION CORE (45 HOURS)

Required Courses (27 credit hours):
- ADV 3008 Introduction to Advertising
- JOU 2100 Beginning Reporting
- MMC 4200 History and Principles of Communications Law or MMC 4203 Communication Ethics
- PUR 3000 Principles of Public Relations
- PUR 3500 Public Relations Research
- PUR 4100 Writing for Public Relations
- PUR 4101 Public Relations Design and Production
- PUR 4401 Public Relations: Issues, Practices, and Problems
- PUR 4801 Advanced Public Relations

Other Requirements (18 credit hours):
The following courses are required outside the School to complete sequence requirements:
- ECO 1000 Basic Economics
- LIS 2005 Information Literacy
- 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

Concentration Electives (4 hours)
- Four (4) credit hours, selected with advisor’s approval

ADVISING INFORMATION

Daniel Shelnutt, Academic Advisor
The mathematics program offers a diversity of courses designed not only to enable the student to pursue a profession in mathematics itself, but also to enhance the student's competence in the fields of engineering, the physical sciences, the life sciences, and the social sciences. The program emphasizes the broad nature of modern mathematics and its close associations with the real world and prepares students for careers in industry or secondary education as well as entry into graduate school.

**STATE MANDATED COMMON COURSE PREREQUISITES**

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 General Education 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.

Transfer students are also required to comply with the immunization, foreign language, and continuous enrollment policies of the university.

Students should complete the following prerequisite courses 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 in prerequisite courses.

- COP XXXX A Scientific Programming Course designed for Computer Science Majors
- MAC X311 Calculus I
- MAC X312 Calculus II - Calculus with Analytic Geometry II
- MAC X313 Calculus III - Calculus with Analytic Geometry III
- MAP X302 Differential Equations
- BSC XXXX / XXXXL or CHM XXXX / XXXXL or PHY XXXX / XXXXL or GLY XXXX / XXXXL (One Laboratory-based Science course for Science majors)

**REQUIREMENTS FOR THE MAJOR IN MATHEMATICS**

**TOTAL MAJOR HOURS: 30**

**MAJOR REQUIREMENTS FOR THE B.A. DEGREE:**

**MAJOR CORE (30 HOURS)**

Minimum 45 credit hours; 30 credit hours in major coursework and 15 credit hours in concentration coursework. Upon completing the three requirements below (30 credit hours), students are required to complete one of the following three concentrations: Applied/Computational Mathematics, Pure Mathematics, or General Mathematics.

- **Core Requirement:** Majors must complete the following seven courses (24 credit hours):
  - MAC 2311 Calculus I or MAC 2281 Engineering Calculus I
  - MAC 2312 Calculus II or MAC 2282 Engineering Calculus II
  - MAC 2313 Calculus III or MAC 2283 Engineering Calculus III
  - MAS 3156 Vector Calculus
  - MAP 2302 Differential Equations
Mathematics-Related Courses (Minimum 6 credit hours):

Students must take two courses in Science or Engineering which are required courses for the majors within those departments. The two courses need not be in the same department. Science courses must include laboratories and be offered by the departments of Cell Biology, Microbiology and Molecular Biology; Chemistry; Geology; Integrative Biology or Physics.

GRADING REQUIREMENT

In general, grades of C- or better are required for courses in the mathematics major and minor and in the statistics major. However, C- is not an acceptable grade for any course that is being used as a prerequisite for a follow-on course. For these courses a grade of C (2.0 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.

RESIDENCY REQUIREMENT

Majors are required to take a minimum of 12 credit hours of required courses in the Department of Mathematics and Statistics at USF.

OTHER REQUIREMENTS

Those interested in pursuing advanced degrees in Mathematics may also be interested in the Honors Program and/or the Accelerated BA/MA Program, both detailed below.

RESEARCH OPPORTUNITIES

All undergraduate students in any degree program can participate in undergraduate research. There are a number of options to receive academic credit for a mentored research experience and to have the experience show on the official transcript. Students who wish to enroll in an undergraduate research course should consult with their academic advisor to understand how the credit will apply towards the degree requirements. If no credit is needed, students may be eligible to enroll in the 0-credit IDS 2912, IDS 4914 or IDH 4910 courses. These courses will not impact degree credits or GPA but will show on an official transcript and document the experience. The Office of Undergraduate Research will assist students in understanding the various course options.

OPTIONAL HONORS PROGRAM

HONORS PROGRAM IN MATHEMATICS

The program is designed for students who wish to obtain a B.A. degree that will indicate unusual strength in the field of mathematics. Successful completion of the program will be prominently displayed on the student's diploma and will be recorded on the official USF transcript of the student's work.

Students are eligible for admission to the program when they:

1. have completed MAS 4301 Elementary Abstract Algebra;
2. have at least a 3.0 GPA for all college courses; and
3. have at least a 3.5 GPA for all Mathematics courses.

Applications are submitted to the Undergraduate Committee in the Department of Mathematics and Statistics. The requirements for a B.A. degree in Mathematics with Honors are as follows:

1. Completion of the requirements of the major in Mathematics;
2. Completion of MAA 4211 Intermediate Analysis I;
3. Completion of MAT 4970 Mathematics Senior Thesis;
4. Completion of eight Mathematics courses at or above the 4000-level;
5. At least a 3.0 average for all college courses; and
6. At least a 3.5 average for all Mathematics courses.

At least 3 (and usually 6) credit hours of Mathematics Senior Thesis are required. There will be a thesis committee and the thesis will need to be successfully defended.

ACCELERATED B.A./M.A. PROGRAM

Accelerated B.A. in Mathematics and M.A. in Mathematics

This program is designed for superior students having a solid background in high school mathematics and the ability to handle a fast paced, challenging program leading to a B.A. in Mathematics and M.A. in Mathematics in four to five years.

ADVISING INFORMATION

Please visit the following website: http://math.usf.edu/resources/advising/ for additional information and all your advising needs.

MATHEMATICS FACULTY


APPLIED/COMPUTATIONAL MATHEMATICS (ACM) CONCENTRATION

This concentration is designed for majors whose interests lie in applications and/or computations. Majors who complete this concentration will be well prepared to explore problems from science, industry, and government.

REQUIREMENTS FOR THE CONCENTRATION IN APPLIED/COMPUTATIONAL MATHEMATICS

TOTAL CONCENTRATION HOURS: 45

CONCENTRATION CORE (12 HOURS)

Majors in this concentration must complete at least one (1) course (three credit hours) in each of the following areas: Numerical/Algorithms, Partial Differential Equations and Applications, Discrete Mathematics, and Statistics/Probability. Additionally students must choose one elective course.

Numerical/Algorithms Requirement – Choose one course.

- MAD 4401 Numerical Analysis I
- MAD 4402 Numerical Analysis II
- MAP 4202 Optimization

Partial Differential Equations and Applications Requirement - Choose one course.

- MAP 4341 Introduction to Partial Differential Equations
Discrete Mathematics Requirement - Choose one course.
- MAD 4203 Introduction to Combinatorics
- MAD 4301 Introduction to Graph Theory
- MAD 4504 Theory of Computation
- MAD 4471 Introduction to Cryptography and Coding Theory

Statistics/Probability Requirement - Choose one course.
- STA 4321 Introduction to Mathematical Statistics I
- STA 4442 Introduction to Probability

Concentration Electives (3 hours)
Majors must complete at least one (1) course (three credit hours) from the following electives. This course may NOT be used to fulfill any of the above requirements.
- MAD 4203 Introduction to Combinatorics
- MAD 4301 Introduction to Graph Theory
- MAD 4401 Numerical Analysis I
- MAD 4402 Numerical Analysis II
- MAD 4504 Theory of Computation
- MAD 4471 Introduction to Cryptography and Coding Theory
- MAP 4202 Optimization
- MAP 4341 Introduction to Partial Differential Equations
- MAT 4930 Selected Topics in Mathematics (may be taken as an elective with the prior approval of the department chair)

One course from another department that is of high mathematical content may also be taken as an elective, with the prior approval of the department chair.

ACCELERATED B.A./M.A. PROGRAM
Accelerated B.A. in Mathematics and M.A. in Mathematics
This program is designed for superior students having a solid background in high school mathematics and the ability to handle a fast paced, challenging program leading to a B.A. in Mathematics and M.A. in Mathematics in four to five years.

GENERAL MATHEMATICS (GMM) CONCENTRATION
This concentration is designed for students whose interests lie in both applications and theory. Students who complete this concentration will be exposed to a variety of topics to help prepare the student for future endeavors in either aspect.

REQUIREMENTS FOR THE CONCENTRATION IN GENERAL MATHEMATICS

TOTAL CONCENTRATION HOURS: 45

CONCENTRATION CORE (6 HOURS)

Majors in this concentration must complete at least one (1) course (three credit hours) in each of the following areas: Applied Mathematics, Pure Mathematics. Additionally students must choose three elective courses.

Applied Mathematics Requirement (3 credit hours) - Majors in this concentration must complete one (1) course from the list below.
• MAD 4401 Numerical Analysis I
• MAD 4402 Numerical Analysis II
• MAD 4504 Theory of Computation
• MAD 4471 Introduction to Cryptography and Coding Theory
• MAP 4202 Optimization
• MAP 4341 Introduction to Partial Differential Equations
• STA 4321 Introduction to Mathematical Statistics I
• STA 4442 Introduction to Probability

**Pure Mathematics Requirement (3 credit hours)** - Majors in this concentration must complete one (1) course from the list below.

• MAA 4211 Intermediate Analysis I
• MAA 4212 Intermediate Analysis II
• MAA 4402 Complex Variables
• MAD 4203 Introduction to Combinatorics
• MAD 4301 Introduction to Graph Theory
• MAS 4302 Elementary Abstract Algebra II
• MTG 4214 Modern Geometry
• MTG 4254 Differential Geometry
• MTG 4302 Introduction to Topology

**Concentration Electives (9 hours)**

Majors in this concentration must complete three (3) courses (9 credit hours) from the list below. These courses may NOT be used to fulfill any of the above requirements.

• MAA 4211 Intermediate Analysis I
• MAA 4212 Intermediate Analysis II
• MAA 4402 Complex Variables
• MAD 4203 Introduction to Combinatorics
• MAD 4301 Introduction to Graph Theory
• MAD 4401 Numerical Analysis I
• MAD 4402 Numerical Analysis II
• MAD 4504 Theory of Computation
• MAD 4471 Introduction to Cryptography and Coding Theory
• MAP 4202 Optimization
• MAP 4341 Introduction to Partial Differential Equations
• MAS 4302 Elementary Abstract Algebra II
• MTG 4214 Modern Geometry
• MTG 4254 Differential Geometry
• MTG 4302 Introduction to Topology
MAT 4930 Selected Topics in Mathematics (may be taken as an elective with the prior approval of the department chair)

One course from another department that is of high mathematical content may also be taken as an elective, with the prior approval of the department chair.

ACCELERATED B.A./M.A. PROGRAM

Accelerated B.A. in Mathematics and M.A. in Mathematics

This program is designed for superior students having a solid background in high school mathematics and the ability to handle a fast paced, challenging program leading to a B.A. in Mathematics and M.A. in Mathematics in four to five years.

PURE MATHEMATICS (PMM) CONCENTRATION

This concentration is designed for majors whose interests lie in mathematical theory. Majors who complete this concentration will be well prepared to continue mathematical studies in graduate school and/or to explore mathematical theory in government and industry.

REQUIREMENTS FOR THE CONCENTRATION IN PURE MATHEMATICS

TOTAL CONCENTRATION HOURS: 45

CONCENTRATION CORE (12 HOURS)

Students in this concentration will need to complete Analysis requirement and complete one course in the following areas: Algebra and Discrete Mathematics, Advanced Analysis, Geometry and Topology. Additionally students must choose one elective course.

Analysis Requirement - Majors in this concentration must complete the following course:

- MAA 4211 Intermediate Analysis I

Majors in this concentration must also complete one (1) course (three credit hours) in each of the following areas:

Algebra and Discrete Mathematics Requirement - Choose one course.

- MAD 4203 Introduction to Combinatorics
- MAD 4301 Introduction to Graph Theory
- MAD 4504 Theory of Computation
- MAD 4471 Introduction to Cryptography and Coding Theory
- MAS 4302 Elementary Abstract Algebra II

Advanced Analysis Requirement - Choose one course.

- MAA 4212 Intermediate Analysis II
- MAA 4402 Complex Variables
- MAP 4341 Introduction to Partial Differential Equations

Geometry and Topology Requirement - Choose one course.

- MTG 4214 Modern Geometry
- MTG 4254 Differential Geometry
- MTG 4302 Introduction to Topology

Concentration Electives (3 hours)

Majors must complete at least one (1) course (three credit hours) from the following electives. This course may NOT be used to fulfill any of the above requirements.
• MAA 4212 Intermediate Analysis II
• MAA 4402 Complex Variables
• MAD 4203 Introduction to Combinatorics
• MAD 4301 Introduction to Graph Theory
• MAD 4504 Theory of Computation
• MAD 4471 Introduction to Cryptography and Coding Theory
• MAP 4341 Introduction to Partial Differential Equations
• MAS 4302 Elementary Abstract Algebra II
• MTG 4214 Modern Geometry
• MTG 4254 Differential Geometry
• MTG 4302 Introduction to Topology
• MAT 4930 Selected Topics in Mathematics (may be taken as an elective with the prior approval of the department chair)

One course from another department that is of high mathematical content may also be taken as an elective, with the prior approval of the department chair.

ACCELERATED B.A./M.A. PROGRAM

Accelerated B.A. in Mathematics and M.A. in Mathematics

This program is designed for superior students having a solid background in high school mathematics and the ability to handle a fast paced, challenging program leading to a B.A. in Mathematics and M.A. in Mathematics in four to five years.

B.S. - MEDICAL TECHNOLOGY (MET)

(CIP = 51.1005)
TOTAL DEGREE HOURS: 120

http://chemistry.usf.edu/undergraduate/majors/medical/

The University of South Florida offers a four year program leading to the Bachelor of Science degree in Medical Technology. The first three years are completed on campus; the fourth year (12 months) is completed at one of three affiliated hospitals in Florida, located in Tampa, St. Petersburg, and Jacksonville. Admission to the fourth year is limited by the number of openings in affiliated hospitals and, at the present time, is competitive. Selection for the clinical program is made by the hospitals and students not admitted to a clinical program will need to select an alternate degree. Generally, hospitals require a minimum GPA of 2.50 to a 2.75, and our students admitted to clinical programs in recent years have had a mean GPA of 3.4 or higher. Students successfully completing this program will be granted a Bachelor of Science degree in Medical Technology.

STATE MANDATED COMMON COURSE PREREQUISITES

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 General Education 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.

Transfer students are also required to comply with the immunization, foreign language, and continuous enrollment policies of the university.
Students should complete the following prerequisite courses 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 in prerequisite courses.

- BSC X010C or BSC X011C or PCB X011C or PCB X013C or BSC X010/X010L or BSC X011/X011L or PCB X013/X013L
- BSC X093C or BSC X085C or ZOO X733C or ZOO X731C or PCB X510C or BSC X093/X093L or BSC X085/X085L or ZOO X733/X733L or ZOO X731/X731L or PCB X510/X510L
- BSC X094C or BSC X986C or PCB X703C or BSC X094/X094L or BSC X086/X086L or PCB X703/X703L or PCB X134/X134L
- CHM X045C or CHM X045/X045L
- CHM X046C or CHM X046/X046L
- CHM X210C or CHM X210/X210L
- MCB X013C or MCB X020C or MCB X023C or MCB X010C or MCB X013/013L or MCB X020/X020L or MCB X010/010L
- STA X014 or STA X023 or STA X024 or STA X321

REQUIREMENTS FOR THE MAJOR IN MEDICAL TECHNOLOGY

TOTAL MAJOR HOURS: 85

MAJOR REQUIREMENTS FOR THE B.S. DEGREE:

MAJOR CORE (85 HOURS)

- BSC 2010 Cellular Processes
- BSC 2010L Cellular Processes Laboratory
- BSC 2011 Biodiversity
- BSC 2011L Biodiversity Laboratory
- BSC 2093C Human Anatomy and Physiology I or BSC 2085 Anatomy and Physiology I for Nursing and Other Healthcare Professionals and BSC 2085L Anatomy and Physiology Laboratory I for Nursing and Other Healthcare Professionals
- CHM 2045 General Chemistry I
- CHM 2045L General Chemistry I Laboratory
- CHM 2046 General Chemistry II
- CHM 2046L General Chemistry II Laboratory
- CHM 2210 Organic Chemistry I
- CHM 2210L Organic Chemistry Laboratory I
- CHM 2211 Organic Chemistry II
- CHM 2211L Organic Chemistry Laboratory II
- MAC 1105 College Algebra (or MAC 1147 Precalculus Algebra and Trigonometry)
- STA 2023 Introductory Statistics I
- MCB 3020 General Microbiology
- MCB 3020L General Microbiology Lab
- MCB 4115 Determinative Bacteriology
• MCB 4115L Determinative Bacteriology Lab
• PCB 3023 Cell Biology
• PCB 3023L Cell Biology Laboratory
• PCB 4234 Principles of Immunology (preferred) or HSC 4504 Public Health Immunology
• BCH 3053 General Biochemistry

Upon successful completion of this curriculum and acceptance by one of the affiliated hospitals, the student will complete twelve (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 coursework in the following courses, which will be taught at the hospital:

• MLS 4038 Introduction to Medical Technology
• MLS 4860 Clinical Urinalysis and Body Fluid
• MLS 4861 Clinical Immunology
• MLS 4862 Clinical Hematology
• MLS 4863 Clinical Microbiology
• MLS 4864 Clinical Chemistry
• MLS 4865 Clinical Immunohematology
• MLS 4866 Clinical Laboratory Management and Education

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. State Communication Requirement (formerly known as Gordon Rule Writing) and State Computation Requirement (formerly known as Gordon Rule Math).
4. All sciences and mathematics requirements listed below, including common prerequisites and those specific to USF, with a “C” or higher in each course.

General Electives. Courses over and above the required courses should be taken to complete a 120 hour program. Additional courses in computer programming, economics, management, engineering, statistics, writing, and other applied disciplines are strongly recommended to strengthen the degree for subsequent professional employment.

Transfer Credit: It is strongly recommended that students transferring from community/state colleges to the University of South Florida complete whole sequences of chemistry courses, such as general and organic chemistry, before they transfer. Even though courses may carry the same common course number, topics covered may vary significantly from school to school.

Effective Fall 2018, all students in the below listed programs must successfully complete the below science and math coursework without earning 3 D and/or F grades. Students unable to successfully complete these courses within these prescribed parameters will be required to select a different major and will not be permitted to take any additional courses offered by the below Departments/Divisions. In addition, registration for all courses offered by these departments will be dependent on students meeting the prescribed parameters regardless of their major.

Furthermore, any student who requests a change of major to one offered in the below identified departments will be required to meet these prescribed parameters as well as those criteria outlined in the Degree Progression Policy 10-505. Any continuing student who was previously forced to select a different major based on previous versions of this policy may now be eligible to pursue the majors listed below, but only if they meet both the criteria described here as well as the Degree Progression Policy 10-505 criteria. Students who are able to complete one of the below majors by earning fewer credit hours than required to complete any other major offered at USF may petition to request an exception and should contact the School of Natural Sciences and Mathematics Advising Office for instructions. Grade Forgiveness will NOT apply to the mandated requirement of changing majors.
Included Departments/Divisions:

Division of Health Professions Advising; Department of Chemistry; Department of Cell Biology, Microbiology and Molecular Biology; and Department of Integrative Biology.

Included courses:

BCH 3053  BSC 2010;  BSC 2011;  BSC 2085;  BSC 2086;  BSC 2093C;  BSC 2094C;  BSC 2932;  CHM 2023;  CHM 2045;  CHM 2046;  CHM 2210;  CHM 2211;  CHS 2440;  MAT 1033;  MAC 1105;  MAC 1147;  MAC 2241;  MAC 2242;  MAC 2281;  MAC 2282;  MAC 2311;  MAC 2312;  MCB 3020;  PCB 3023;  PCB 3063;  PHY 2053;  PHY 2054;  PHY 2048;  PHY 2049;  PHY 2060;  PHY 2061;  STA 2023.

GRADING REQUIREMENT

A grade of C or better is required for science and mathematics courses and each supporting course for the Major. All courses in any chemistry major must be taken with letter grade (A, B, C, D, F, I) except those courses which are graded S/U only.

RESEARCH OPPORTUNITIES

The Department of Chemistry offers the opportunity for students to participate in undergraduate research with Chemistry faculty. Students can apply for the Academic Research Experience for Undergraduates (REU) Program and find more information here: http://chemistry.usf.edu/undergraduate/reu/. Students who wish to enroll in an undergraduate research course with a Chemistry faculty member should consult with their academic advisor to understand how the credit will apply towards the degree requirements. If no credit is needed, students may be eligible to enroll in a 0 credit research course. These courses will not impact degree credits or GPA but will show on an official transcript and document the experience. The Academic Advisors in the Department of Chemistry, as well as the Office for Undergraduate Research, can assist students in understanding the various course options.

ADVISING INFORMATION

Department of Chemistry Advising: chemadvise@usf.edu or http://chemistry.usf.edu/advising/.

MEDICAL TECHNOLOGY FACULTY


B.S. - MICROBIOLOGY (MIC)

(CIP = 26.0503)  
TOTAL DEGREE HOURS: 120  


This degree specializes in the study of bacteria and other microbes, primarily at the cell and molecular level, and focuses on disease causing microbes. The Microbiology core and elective requirements include specialized microbiology courses necessary to qualify for certification by the National Registry of Microbiologists, American Society of Microbiology, and employment in microbiology and related fields. Many microbiology majors plan to apply to medical or dental school, while others plan careers as professional microbiologists in industry and government. Others become teachers or aspire to graduate training in microbiology.
STATE MANDATED COMMON COURSE PREREQUISITES

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 General Education 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.

Transfer students are also required to comply with the immunization, foreign language, and continuous enrollment policies of the university.

Students should complete the following prerequisite courses 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 in prerequisite courses.

- BSC X010/X010L Biology I with Lab or BSC X010C or BSC X040/X040L or PCB X011C
- BSC X011/X011L Biology II with Lab or BSC X011C or BSC X041/X041L
- CHM X045/X045L General Chemistry I with Lab or CHM X045C or (CHM X040 and CHM X041)
- CHM X046/X046L General Chemistry II with Lab or CHM X046C
- CHM X210/X210L Organic Chemistry I with Lab and CHM X211/X211L or (CHM X210C and CHM X211C) or (PHY X053/X053L and PHY X054/X054L) or (PHY X048/X048L and PHY X049/X049L)
- MAC X311 Calculus I or MAC X233 or MAC X253 or MAC X281
- MAC X312 Calculus II or MAC X282 or MAC X234 or STA X023 or STA X024 or STA X321

REQUIREMENTS FOR THE MAJOR IN MICROBIOLOGY

REQUIRED SUPPORTING COURSES FOR THE MAJOR: 32-34 HOURS

The following courses are prerequisite and supporting courses for this major. They are required for the major, but are not counted in the total hours for this major. The degree will not be awarded if these courses have not been taken by the end of the student’s final semester.

- CHM 2045 General Chemistry I
- CHM 2045L General Chemistry I Laboratory
- CHM 2046 General Chemistry II
- CHM 2046L General Chemistry II Laboratory
- CHM 2210 Organic Chemistry I
- CHM 2210L Organic Chemistry I Laboratory
- CHM 2211 Organic Chemistry II
- CHM 2211L Organic Chemistry II Laboratory
- MAC 2241 Life Sciences Calculus I and MAC 2242 Life Sciences Calculus II

or

- MAC 2281 Engineering Calculus I and MAC 2282 Engineering Calculus II

or

- MAC 2311 Calculus I and MAC 2312 Calculus II
  - STA 2023 Introductory Statistics I may be substituted for any Calculus II
• PHY 2048/2048L General Physics I - Calculus Based and PHY 2049/2049L General Physics II - Calculus Based (Note: PHY 2060 may substitute for PHY 2048 and PHY 2061 may substitute for PHY 2049)

or

• PHY 2053/2053L General Physics I and General Physics 1 Laboratory and PHY 2054/2054L General Physics II and General Physics II Laboratory

TOTAL MAJOR HOURS: 43

MAJOR REQUIREMENTS FOR THE B.S. DEGREE:

MAJOR CORE (31 HOURS)

• BSC 2010 Cellular Processes
• BSC 2010L Cellular Processes Laboratory
• BSC 2011 Biodiversity
• BSC 2011L Biodiversity Laboratory
• PCB 3023 Cell Biology
• PCB 3023L Cell Biology Laboratory
• PCB 3063 General Genetics
• PCB 3063L General Genetics Laboratory
• MCB 3410 Cell Metabolism
• MCB 3020 General Microbiology
• MCB 3020L General Microbiology Laboratory
• MCB 4115 Determinative Bacteriology
• MCB 4115L Determinative Bacteriology Laboratory
• MCB 4320 Molecular Microbiology

MAJOR ELECTIVES (12 HOURS)

Students must choose 12 credit hours from the following list:

• BCH 3053 General Biochemistry
• BOT 4434C Mycology
• BSC 4905 Independent Study (1 credit maximum)
• BSC 5931 Selected Topics in Biology*
• MCB 4313 Industrial Microbiology and Biotechnology
• MCB 4223 Food Microbiology
• MCB 4404 Microbial Physiology and Genetics
• MCB 4404L Microbial Physiology and Genetics Laboratory
• MCB 4503 Virology
• MCB 4905 Microbiology Undergraduate Research (1 or 2 credit hours/semester, no more than 4 credits total)
• MCB 4933 Selected Topics in Microbiology*
• MCB 4934 Seminar in Microbiology
• MCB 5206 Public Health and Pathogenic Microbiology

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- MCB 5655 Applied and Environmental Microbiology
- MCB 5815 Medical Mycology
- PCB 4234 Principles of Immunology
- PCB 4671 Molecular Evolution
- ZOO 4753 Human Histology and Molecular Pathology of Disease

*Selected topics approved for the major by the Department of Cell Biology, Microbiology and Molecular Biology

Effective Fall 2018, all students in the below listed programs must successfully complete the below science and math coursework without earning D and/or F grades. Students unable to successfully complete these courses within these prescribed parameters will be required to select a different major and will not be permitted to take any additional courses offered by the below Departments/Divisions. In addition, registration for all courses offered by these departments will be dependent on students meeting the prescribed parameters regardless of their major.

Furthermore, any student who requests a change of major to one offered in the below identified departments will be required to meet these prescribed parameters as well as those criteria outlined in the Degree Progression Policy 10-505. Any continuing student who was previously forced to select a different major based on previous versions of this policy may now be eligible to pursue the majors listed below, but only if they meet both the criteria described here as well as the Degree Progression Policy 10-505 criteria. Students who are able to complete one of the below majors by earning fewer credit hours than required to complete any other major offered at USF may petition to request an exception and should contact the School of Natural Sciences and Mathematics Advising Office for instructions. Grade Forgiveness will NOT apply to the mandated requirement of changing majors.

**Included Departments/Divisions:**
- Division of Health Professions Advising; Department of Chemistry; Department of Cell Biology, Microbiology and Molecular Biology; and Department of Integrative Biology.

**Included courses:**
- BCH 3053
- BSC2010; BSC2011; BSC 2085; BSC 2086; BSC 2093C; BSC 2094C; BSC 2932; CHM 2023; CHM2045; CHM2046; CHM2210; CHM2211; CHS 2440; MAT 1033; MAC1105; MAC1147; MAC2241; MAC2242; MAC2281; MAC2282; MAC2311; MAC2312; MCB 3020; PCB 3023; PCB3063; PHY2053; PHY2054; PHY2048; PHY2049; PHY2060; PHY 2061; STA 2023.

**GRADING REQUIREMENT**

A student must receive a C- grade or better in all Department of Cell Biology, Microbiology, and Molecular Biology courses and supporting courses in the natural sciences, except if they are used as general elective courses. This specification applies to both USF and transfer courses.

Please note that some supporting science courses may require a grade of C or better in order to meet the prerequisite requirements for course sequences.

**RESIDENCY REQUIREMENT**

A minimum of 20 credits hours of courses must be taken in residency and be applicable to the major.

Once a student has matriculated to USF Tampa, he/she is expected to take 100 percent of the required major coursework at USF Tampa.

**RESEARCH OPPORTUNITIES**

A maximum of 2 credit hours of Undergraduate Research (MCB 4905) may be taken in a single semester, and a maximum of 4 credit hours of Undergraduate Research may be applied as electives.
ACCELERATED B.S/M.S. PROGRAM

Accelerated B.S. in Microbiology and M.S. in Microbiology

This program allows undergraduate Microbiology to take graduate courses for the elective part of the Microbiology major and apply them to a non-thesis M.S. in Microbiology. Successful students will be able to earn the M.S. degree in two additional semesters beyond the completion of the B.S. degree.

ADVISING INFORMATION

BioAdvise: Science Center (SCA) 203, (813) 974-3250

http://biology.usf.edu/bioadvise/

Email: bioadvise@usf.edu.

MICROBIOLOGY FACULTY


B.A. - PHILOSOPHY (PHI)

(CIP = 38.0101)
TOTAL DEGREE HOURS: 120

http://philosophy.usf.edu/

This degree prepares our majors to go on to graduate school, medical school, law school, or choose to enter the workforce in a wide variety of public, private, governmental, and non-profit agencies. Faculty in the department collaborate with an extensive group of disciplines, providing students across campus with a site for interdisciplinary learning and teaching. Given the intensity and rigor of study, including analytical reading and critical writing, our majors make themselves extremely attractive to potential employers.

STATE MANDATED COMMON COURSE PREREQUISITES

Students desiring to transfer to USF should complete an A.A. degree at a Florida College System institution. If students transfer with fewer than 60 semester hours of acceptable credit, the students must meet the University's entering freshman requirements including ACT or SAT test scores, GPA, and course requirements. Transfer students are also required to comply with the immunization, foreign language, and continuous enrollment policies of the university.

There are no State Mandated Common Prerequisites for this program. Students are encouraged to take several Philosophy courses with the PHH, PHI, PHM, or PHP prefix.

REQUIREMENTS FOR THE MAJOR IN PHILOSOPHY

TOTAL MAJOR HOURS: 36

MAJOR REQUIREMENTS FOR THE B.A. DEGREE:

MAJOR CORE (15 HOURS)

Courses for the major are divided into four groups: history, logic, capstone, and electives. Within the history and elective groups, students have considerable latitude in selecting their courses; however, it is expected that they do so in consultation with their major advisor and Philosophy faculty with a view toward achieving a balanced program of study.

Students pursuing Philosophy as a second major are required to complete 30 hours in Philosophy coursework

I. History of Philosophy – 9 credit hours:

Choose three of the following courses:
PHH 3062 History of Western Philosophy: Ancient Philosophy
PHH 3280 Medieval and Renaissance Philosophy
PHH 3420 Early Modern Philosophy
PHH 3442 Late Modern Philosophy
PHH 4440 Continental Philosophy
PHH 4600 Contemporary Philosophy
PHH 4700 American Philosophy
PHH 4820 Chinese Philosophy
PHM 4331 Modern Political Philosophy
PHP 3786 Existentialism
PHP 4000 Plato
PHP 4010 Aristotle
PHP 4410 Kant
PHP 4784 Analytical Philosophy

II. Logic – 3 credit hours:
Choose one of the following courses:
- PHI 3130 Formal Logic (Strongly encouraged)
- PHI 2101 Introduction to Formal Logic

III. Capstone Seminar – 3 credit hours:
- PHI 4938 Philosophy Capstone Seminar

MAJOR ELECTIVES (21 HOURS)
Choose seven courses (21 credit hours) from the following prefixes: PHH, PHI, PHM and PHP. (Fifteen credit hours for students taking Philosophy as a second major) No more than six elective hours taken at the 1000 and 2000 level may count toward the Philosophy major. Courses taken to fulfill the nine hours of History of Philosophy requirement (I.) will not count toward elective hours in the major.

GRADING REQUIREMENT
No grade below C- in any required philosophy course or philosophy elective may count toward the major.

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.

RESEARCH OPPORTUNITIES
All undergraduate students in any degree program can participate in undergraduate research. There are a number of options to receive academic credit for a mentored research experience and to have the experience show on the official transcript. Students who wish to enroll in an undergraduate research course should consult with their academic advisor to understand how the credit will apply towards the degree requirements. If no credit is needed, students may be eligible to enroll in the 0-credit IDS 2912, IDS 4914 or IDH 4910 courses. These courses will not impact degree credits or GPA but will show on an official transcript and document the experience. The Office of Undergraduate Research will assist students in understanding the various course options.
Honors Program

The Honors Program in Philosophy allows superior students to pursue philosophical studies at a more advanced level than is customary in undergraduate Philosophy programs. Students in the Honors Program will be required to do independent research and to write and defend an undergraduate thesis.

Admission Criteria:

1. Students must already have declared a major in Philosophy.
2. Students must complete nine (9) hours in Philosophy at the 3000-level or higher (PHI 2101 may count toward the nine hours).
3. Students must have an overall grade point average of 3.5 or better, and their grade point average in Philosophy coursework must be at least a 3.50 or better.
4. Students who wish to be considered for the Honors Program must request to be nominated by a member of the faculty. Once nominated by a faculty member, a majority of the faculty who have taught the student must approve the student's admission to the Honors Program.

Program Requirements:

In addition to completing the requirements for the Major in Philosophy, students must meet the following requirements:

1. Students cannot receive a grade lower than a "B" in any Philosophy course, and their GPA in Philosophy coursework must be at least 3.50 to remain in, or be graduated from, the Honors Program.
2. Students must write a senior thesis and undergo an oral examination on the thesis before a committee of two Philosophy faculty members. Students will register for three hours in directed study in Philosophy (PHI 4905 or IDH equivalent), with supervision of Philosophy faculty, 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.
3. Students must complete 36 credit hours in Philosophy.

OTHER INFORMATION

Students pursuing Philosophy as a second major are required to complete 30 hours in Philosophy coursework. To do so they must make a written request to the Undergraduate Director at the time they declare their Philosophy major.

ADVISING INFORMATION

Philosophy Advising: PhilosophyAdvise@usf.edu

Academic Advisor: Andrew Bird, 813-974-6957, ajbird@usf.edu

Undergraduate Program Director: Michael Morris, 813-974-5620, michael34@usf.edu

PHILOSOPHY FACULTY

## B.A. - PHYSICAL SCIENCES (PSBA)

*(CIP = 40.0801 - TRACK 1 OF 3)*  
**TOTAL DEGREE HOURS: 120**

The degree in Physical Sciences will prepare students for employment in technical fields requiring a background in one or more of the physical sciences.

### STATE MANDATED COMMON COURSE PREREQUISITES

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 General Education 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.

Transfer students are also required to comply with the immunization, foreign language, and continuous enrollment policies of the university.

Students should complete the following prerequisite courses 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 in prerequisite courses.

- CHM X045/X045L General Chemistry I (with lab) or CHM X040 & CHM X041 or CHM X045C
- CHM X046/X046L General Chemistry II (with lab) or CHM X046C
- MAC X311 Calculus I or MAC X281
- MAC X312 Calculus II or MAC X282
- MAC X313 Calculus III or MAC X283
- (PHY X048/X048L General Physics I and PHY X049/X049L) or (PHY X048C and PHY X049C)

### REQUIREMENTS FOR THE MAJOR IN PHYSICAL SCIENCES

**REQUIRED SUPPORTING COURSES FOR THE MAJOR: 28 HOURS**

The following courses are prerequisite and supporting courses for this major. They are required for the major, but are not counted in the total hours for this major. The degree will not be awarded if these courses have not been taken by the end of the student’s final semester.

The following courses are prerequisite and supporting courses for this major. They are required for the major, but are not counted in the total hours for this major. The degree will not be awarded if these courses have not been taken by the end of the student’s final semester.

- CHM 2045 General Chemistry I and CHM 2045L General Chemistry I Laboratory
- CHM 2046 General Chemistry II and CHM 2046L General Chemistry II Laboratory
- MAC 2311 Calculus I or MAC 2281 Engineering Calculus I
- MAC 2312 Calculus II or MAC 2282 Engineering Calculus II
- MAC 2313 Calculus III or MAC 2283 Engineering Calculus III
• PHY 2048* General Physics I – Calculus Based and PHY 2048L General Physics I Laboratory
  
  o or PHY 2060 Enriched General Physics I with Calculus and PHY 2048L is strongly recommended

• PHY 2049* General Physics II – Calculus Based and PHY 2049L General Physics II Laboratory
  
  o or PHY 2061 Enriched General Physics II with Calculus and PHY 2049L is strongly recommended

*NOTE: PHY 2060 may substitute for PHY 2048 and PHY 2061 may substitute for PHY 2049.

TOTAL MAJOR HOURS: 25

MAJOR REQUIREMENTS FOR THE B.A. DEGREE:

MAJOR CORE (6 HOURS)

Computational Science Requirement (6 credit hours)

Choose any two of the following courses:

• COP 4313 Symbolic Computations in Mathematics (PR: MAS 3105 and MAP 2302)
• GLY 3866 Computational Geology
• PHZ 4151C Computational Physics
• MAD 4401 Numerical Analysis I (PR: MAP 2302 and MAS 3105)
• MAD 4471 Introduction to Cryptography and Coding Theory (PR: MAS 3105 and MGF 3301)
• MAD 4504 Theory of Computation (PR: MGF 3301 and MAD 3107)

MAJOR ELECTIVES (19 HOURS)

Choose 19 credit hours from the following list of courses:

• CHM 2210 Organic Chemistry I
• CHM 2210L Organic Chemistry I Laboratory
• CHM 3120C Elementary Analytical Chemistry
• CHM 3610 Intermediate Inorganic Chemistry
• CHM 3610L Intermediate Inorganic Chemistry Laboratory
• CHM 4410 Physical Chemistry I
• CHM 4410L Physical Chemistry I Lab
• CHM 4413 Biophysical Chemistry
• ESC 2000 Introduction to Earth Science
• GEO 3280 Environmental Hydrology
• GLY 2010 Dynamic Earth: Introduction to Physical Geology
• GLY 3311C Mineral, Petrology, Geochemistry
• MAP 2302 Differential Equations
• MAS 3105 Linear Algebra
• MAS 3156 Vector Calculus
• MGF 3301 Bridge to Abstract Math
• OCE 2001 Introduction to Oceanography
• PHY 3101 Modern Physics
• PHY 3220 Classical Mechanics (PR: PHY 3101 and PHZ 3113)
• PHY 3323 Electricity and Magnetism I (PR: PHY 3101 and PHZ 3113)
• PHY 3822L Intermediate Laboratory (CR: PHY 3101)
• PHY 4424 Optics (PR: PHY 3101)
• PHY 4604 Introduction to Quantum Mechanics (PR: PHY 3101 and PHZ 3113)
• PHY 4744C Introduction to Electronics and Test Instrumentation (PR: PHY 3822L)
• PHY 4823L Advanced Laboratory (PR: PHY 3822L)
• PHY 4930 Undergraduate Seminar
• PHZ 3113 Mathematical Methods in Physics
• PHZ 4151C Computational Physics (may not count for both the computational science and major electives requirements)

Other courses may count, subject to approval by the Physics Undergraduate Coordinator. A maximum of 12 credit hours may be included from courses in Chemical, Biomedical, Electrical, Mechanical, and Civil Engineering that have either PHY 2049, PHY 2061 or CHM 2046 as prerequisites.

Note: Students may need to satisfy additional prerequisites prior to taking some of the listed courses.

GPA REQUIREMENTS

Students must maintain a minimum GPA of 2.0 in courses required for the major.

COURSE GRADE REQUIREMENT

The minimum satisfactory letter grade for any course used to satisfy requirements for the major is C-.

RESEARCH OPPORTUNITIES

All undergraduate students in any degree program can participate in undergraduate research. There are a number of options to receive academic credit for a mentored research experience and to have the experience show on the official transcript. Students who wish to enroll in an undergraduate research course should consult with their academic advisor to understand how the credit will apply towards the degree requirements. If no credit is needed, students may be eligible to enroll in the 0-credit IDS 2912, IDS 4914 or IDH 4910 courses. These courses will not impact degree credits or GPA but will show on an official transcript and document the experience. The Office of Undergraduate Research will assist students in understanding the various course options.
B.S. - PHYSICAL SCIENCES (PSBS)
(CIP = 40.0801 - TRACK 1 OF 3)
TOTAL DEGREE HOURS: 120

The degree in Physical Sciences will prepare students for employment in technical fields requiring a background in one or more of the physical sciences.

STATE MANDATED COMMON COURSE PREREQUISITES

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 General Education 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.

Transfer students are also required to comply with the immunization, foreign language, and continuous enrollment policies of the university.

Students should complete the following prerequisite courses 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 in prerequisite courses.

- CHM X045/X045L General Chemistry I (with lab) or CHM X040 & CHM X041 or CHM X045C
- CHM X046/X046L General Chemistry II (with lab) or CHM X046C
- MAC X311 Calculus I or MAC X281
- MAC X312 Calculus II or MAC X282
- MAC X313 Calculus III or MAC X283
- (PHY X048/X048L General Physics I and PHY X049/X049L) or (PHY X048C and PHY X049C)

REQUIREMENTS FOR THE MAJOR IN PHYSICAL SCIENCES

REQUIRED SUPPORTING COURSES FOR THE MAJOR: 28 HOURS

The following courses are prerequisite and supporting courses for this major. They are required for the major, but are not counted in the total hours for this major. The degree will not be awarded if these courses have not been taken by the end of the student’s final semester.

The following courses are prerequisite and supporting courses for this major. They are required for the major, but are not counted in the total hours for this major. The degree will not be awarded if these courses have not been taken by the end of the student’s final semester.

- CHM 2045 General Chemistry I and CHM 2045L General Chemistry I Laboratory
- CHM 2046 General Chemistry II and CHM 2046L General Chemistry II Laboratory
- MAC 2311 Calculus I or MAC 2281 Engineering Calculus I
- MAC 2312 Calculus II or MAC 2282 Engineering Calculus II
- MAC 2313 Calculus III or MAC 2283 Engineering Calculus III
• PHY 2048* General Physics I – Calculus Based and PHY 2048L General Physics I - Calculus Based Laboratory
  o or PHY 2060 Enriched General Physics I with Calculus and PHY 2048L is strongly recommended
• PHY 2049* General Physics II – Calculus Based and PHY 2049L General Physics II - Calculus Based Laboratory
  o or PHY 2061 Enriched General Physics II with Calculus and PHY 2049L is strongly recommended

*NOTE: PHY 2060 may substitute for PHY 2048 and PHY 2061 may substitute for PHY 2049.

TOTAL MAJOR HOURS: 39

MAJOR REQUIREMENTS FOR THE B.S. DEGREE:

MAJOR CORE (6 HOURS)

Computational Science Requirement (6 credit hours)
Choose any two of the following courses:
• COP 4313 Symbolic Computations in Mathematics (PR: MAS 3105 and MAP 2302)
• GLY 3866 Computational Geology
• PHZ 4151C Computational Physics
• MAD 4401 Numerical Analysis I (PR: MAP 2302 and MAS 3105)
• MAD 4471 Introduction to Cryptography and Coding Theory (PR: MAS 3105 and MGF 3301)
• MAD 4504 Theory of Computation (PR: MGF 3301 and MAD 3107)

MAJOR ELECTIVES (33 HOURS)

Choose 33 credit hours from the following list of courses:
• CHM 2210 Organic Chemistry I
• CHM 2210L Organic Chemistry I Laboratory
• CHM 3120C Elementary Analytical Chemistry
• CHM 3610 Intermediate Inorganic Chemistry
• CHM 3610L Intermediate Inorganic Chemistry Laboratory
• CHM 4410 Physical Chemistry I
• CHM 4410L Physical Chemistry I Lab
• CHM 4413 Biophysical Chemistry
• ESC 2000 Introduction to Earth Science
• GEO 3280 Environmental Hydrology
• GLY 2010 Dynamic Earth: Introduction to Physical Geology
• GLY 3311C Mineral, Petrology, Geochemistry
• MAP 2302 Differential Equations
• MAS 3105 Linear Algebra
• MAS 3156 Vector Calculus
• MGF 3301 Bridge to Abstract Math
• OCE 2001 Introduction to Oceanography
- PHY 3101 Modern Physics
- PHY 3220 Classical Mechanics (PR: PHY 3101 and PHZ 3113)
- PHY 3323 Electricity and Magnetism I (PR: PHY 3101 and PHZ 3113)
- PHY 3822L Intermediate Laboratory (CR: PHY 3101)
- PHY 4424 Optics (PR: PHY 3101)
- PHY 4604 Introduction to Quantum Mechanics (PR: PHY 3101 and PHZ 3113)
- PHY 4744C Introduction to Electronics and Test Instrumentation (PR: PHY 3822L)
- PHY 4823L Advanced Laboratory (PR: PHY 3822L)
- PHY 4930 Undergraduate Seminar
- PHZ 3113 Mathematical Methods in Physics
- PHZ 4151C Computational Physics (may not count for both the computational science and major electives requirements)

Other courses may count, subject to approval by the Physics Undergraduate Coordinator. A maximum of 12 credit hours may be included from courses in Chemical, Biomedical, Electrical, Mechanical, and Civil Engineering that have either PHY 2049, PHY 2061 or CHM 2046 as prerequisites.

Note: Students may need to satisfy additional prerequisites prior to taking some of the listed courses.

### GPA REQUIREMENTS

Students must maintain a minimum GPA of 2.0 in courses required for the major.

### COURSE GRADE REQUIREMENT

The minimum satisfactory letter grade for any course used to satisfy requirements for the major is C-.

### RESEARCH OPPORTUNITIES

All undergraduate students in any degree program can participate in undergraduate research. There are a number of options to receive academic credit for a mentored research experience and to have the experience show on the official transcript. Students who wish to enroll in an undergraduate research course should consult with their academic advisor to understand how the credit will apply towards the degree requirements. If no credit is needed, students may be eligible to enroll in the 0-credit IDS 2912, IDS 4914 or IDH 4910 courses. These courses will not impact degree credits or GPA but will show on an official transcript and document the experience. The Office of Undergraduate Research will assist students in understanding the various course options.
B.S. - PHYSICS (PHS)
(CIP = 40.0801 - TRACK 1 OF 3)
TOTAL DEGREE HOURS: 120
http://physics.usf.edu/ug/degree/

The B.S. program is intended for students planning to pursue graduate studies in physics or a closely related field.

STATE MANDATED COMMON COURSE PREREQUISITES

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 General Education 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.

Transfer students are also required to comply with the immunization, foreign language, and continuous enrollment policies of the university.

Students should complete the following prerequisite courses 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 in prerequisite courses.

- CHM X045/X045L General Chemistry I (with lab) or CHM X040 & CHM X041 or CHM X045C
- CHM X046/X046L General Chemistry II (with lab) or CHM X046C
- MAC X311 Calculus I or MAC X281
- MAC X312 Calculus II or MAC X282
- MAC X313 Calculus III or MAC X283
- (PHY X048/X048L General Physics I and PHY X049/X049L) or (PHY X048C and PHY X049C)

REQUIREMENTS FOR THE MAJOR IN PHYSICS

REQUIRED SUPPORTING COURSES FOR THE MAJOR: 20 HOURS

The following courses are prerequisite and supporting courses for this major. They are required for the major, but are not counted in the total hours for this major. The degree will not be awarded if these courses have not been taken by the end of the student's final semester.

- CHM 2045 General Chemistry I
- CHM 2045L General Chemistry I Laboratory
- CHM 2046 General Chemistry II
- CHM 2046L General Chemistry II Laboratory
- MAC 2311 Calculus I or MAC 2281 Engineering Calculus I
- MAC 2312 Calculus II or MAC 2282 Engineering Calculus II
- MAC 2313 Calculus III or MAC 2283 Engineering Calculus III
TOTAL MAJOR HOURS: 47

MAJOR REQUIREMENTS FOR THE B.S. DEGREE:

MAJOR CORE (42 HOURS)

Physics Courses (42 hours):

- PHY 2048 General Physics I*
- PHY 2048L General Physics I Laboratory
- PHY 2049 General Physics II*
- PHY 2049L General Physics II Laboratory
- PHY 3101 Modern Physics
- PHZ 3113 Mathematical Methods in Physics
- PHY 3822L Intermediate Laboratory
- PHY 3220 Classical Mechanics
- PHY 3323 Electricity and Magnetism I
- PHY 4823L Advanced Laboratory
- PHY 4910 Undergraduate Research (2 hours recommended)
- PHY 4604 Introduction to Quantum Mechanics
- PHY 4930 Undergraduate Seminar
- PHY 4324 Electricity and Magnetism II
- PHY 4523 Statistical Physics
- PHY 4605 Quantum Mechanics II

*NOTE: PHY 2060 may substitute for PHY 2048 and PHY 2061 may substitute for PHY 2049.

MAJOR ELECTIVES (5 HOURS)

Plus 5 credit hours of Physics electives subject to approval of undergraduate advisor.

GRADING REQUIREMENT

A minimum grade of "C" is required for all physics classes in the curriculum.

RESIDENCY REQUIREMENT

A minimum of 20 credit hours of physics courses in residency.

RESEARCH OPPORTUNITIES

All undergraduate students in any degree program can participate in undergraduate research. There are a number of options to receive academic credit for a mentored research experience and to have the experience show on the official transcript. Students who wish to enroll in an undergraduate research course should consult with their academic advisor to understand how the credit will apply towards the degree requirements. If no credit is needed, students may be eligible to enroll in the 0-credit IDS 2912, IDS 4914 or IDH 4910 courses. These courses will not impact degree credits or GPA but will show on an official transcript and document the experience. The Office of Undergraduate Research will assist students in understanding the various course options.
ADVISING INFORMATION

Physics Advising: physics.usf.edu/ug/advising/
physicsadvise@usf.edu

PHYSICS FACULTY


B.A. - PHYSICS (PHY)

(CIP = 40.0801 - TRACK 1 OF 3)
TOTAL DEGREE HOURS: 120

http://physics.usf.edu/ug/degree/

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.

STATE MANDATED COMMON COURSE PREREQUISITES

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 General Education 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.

Transfer students are also required to comply with the immunization, foreign language, and continuous enrollment policies of the university.

Students should complete the following prerequisite courses 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 in prerequisite courses.

- CHM X045/X045L General Chemistry I (with lab) or CHM X040 & CHM X041 or CHM X045C
- CHM X046/X046L General Chemistry II (with lab) or CHM X046C
- MAC X311 Calculus I or MAC X281
- MAC X312 Calculus II or MAC X282
- MAC X313 Calculus III or MAC X283
- (PHY X048/X048L General Physics I and PHY X049/X049L) or (PHY X048C and PHY X049C)
REQUIREMENTS FOR THE MAJOR IN PHYSICS

REQUIRED SUPPORTING COURSES FOR THE MAJOR: 20 HOURS

The following courses are prerequisite and supporting courses for this major. They are required for the major, but are not counted in the total hours for this major. The degree will not be awarded if these courses have not been taken by the end of the student’s final semester.

- CHM 2045 General Chemistry I
- CHM 2045L General Chemistry I Laboratory
- CHM 2046 General Chemistry II
- CHM 2046L General Chemistry II Laboratory
- MAC 2311 Calculus I or MAC 2281 Engineering Calculus I
- MAC 2312 Calculus II or MAC 2282 Engineering Calculus II
- MAC 2313 Calculus III or MAC 2283 Engineering Calculus III

TOTAL MAJOR HOURS: 33

MAJOR REQUIREMENTS FOR THE B.A. DEGREE:

MAJOR CORE (31 HOURS)

Physics Courses (33 hours):

- PHY 2048 General Physics I*
- PHY 2048L General Physics I Laboratory
- PHY 2049 General Physics II*
- PHY 2049L General Physics II Laboratory
- PHY 3101 Modern Physics
- PHZ 3113 Mathematical Methods in Physics
- PHY 3822L Intermediate Laboratory
- PHY 3220 Classical Mechanics
- PHY 3323 Electricity and Magnetism I
- PHY 4823L Advanced Laboratory
- PHY 4930 Undergraduate Seminar
- PHY 4604 Introduction to Quantum Mechanics

*NOTE: PHY 2060 may substitute for PHY 2048 and PHY 2061 may substitute for PHY 2049.

MAJOR ELECTIVES (2 HOURS)

Plus two (2) credit hours of Physics electives subject to approval of undergraduate advisor.

GRADING REQUIREMENT

A minimum grade of "C" is required for all physics classes in the curriculum.

RESIDENCY REQUIREMENT

A minimum of 20 credit hours of physics courses in residency.
RESEARCH OPPORTUNITIES

All undergraduate students in any degree program can participate in undergraduate research. There are a number of options to receive academic credit for a mentored research experience and to have the experience show on the official transcript. Students who wish to enroll in an undergraduate research course should consult with their academic advisor to understand how the credit will apply towards the degree requirements. If no credit is needed, students may be eligible to enroll in the 0-credit IDS 2912, IDS 4914 or IDH 4910 courses. These courses will not impact degree credits or GPA but will show on an official transcript and document the experience. The Office of Undergraduate Research will assist students in understanding the various course options.

ACCELERATED B.A./M.A.T. PROGRAM

Accelerated B.A. in Physics and M.A.T. in Science Education

This program intends for students to complete a B.A. in Physics (College of Arts and Sciences) and M.A.T. in Science Education (College of Education) over the span of five years. Students completing this program will be eligible for high school and/or middle school science teacher certification. Completion of this program requires students to complete 12 credit hours toward the M.A.T. in Science Education during their senior year in the Physics (B.A.) major.

OTHER INFORMATION

Teacher Education Programs
For information concerning the degree programs for secondary school teachers, see College of Education, Department of Secondary Education.

ADVISING INFORMATION

physicsadvise@usf.edu

PHYSICS FACULTY


B.A. - POLITICAL SCIENCE (POL)

(CIP = 45.1001)
TOTAL DEGREE HOURS: 120

http://hennarot.forest.usf.edu/main/depts/IGS/undergraduate/political-science/

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.

STATE MANDATED COMMON COURSE PREREQUISITES

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 General Education 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.
Transfer students are also required to comply with the immunization, foreign language, and continuous enrollment policies of the university.

Students should complete the following prerequisite courses 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 in prerequisite courses.

- POS X041 or POS XXX or INR XXXX or CPO XXXX
- POS XXXX or INR XXXX or CPO XXXX

REQUIREMENTS FOR THE MAJOR IN POLITICAL SCIENCE

TOTAL MAJOR HOURS: 36

MAJOR REQUIREMENTS FOR THE B.A. DEGREE:

MAJOR CORE (12 HOURS)

A minimum of 36 credit hours is required to satisfy the requirements of the major. Students must take the 12 credit hours of required core courses in Political Science coursework. No more than six (6) credit hours can be taken from POS 4905, POS 4910 and POS 4941. Students enrolled in the Washington, D.C. semester program may have this rule altered by their advisor. (A GPA of 3.0 is required to enroll in these courses; the Chair may grant special exception for students with a GPA between 2.70 and 2.99).

In addition, all Political Science majors are required to take at least three (3) credit hours of Economics coursework. (Please see an advisor for recommendations.)

- CPO 2002 Introduction Comparative Politics or INR 2002 Introduction to International Relations
  - Note that either CPO 2002 or INR 2002 must be taken as a core course. However, the other course not taken as a core course may be taken as an elective.
- POS 2041 American National Government
- POT 3003 Introduction to Political Theory
- POS 3713 Empirical Political Analysis

Students should complete POT 3003 and POS 3713 by the end of their junior year; students transferring with 45 credit hours or more are encouraged to complete these courses within their first two semesters in residence at USF.

Students are further advised to not take POS 3713 and POT 3003 in the same semester. Please consult with the Political Science advisor with any questions regarding these recommendations.

MAJOR ELECTIVES (24 HOURS)

Students must choose electives from the seven fields listed below with at least one course from Field I, one course from Field II or III, and one course from any of Fields IV, V, VI, or VII. Core required courses must be completed before a course from a given field or field grouping may be taken.

Field I: Political Theory

- POT 3013 Classical Political Theory
- POT 4064 Contemporary Political Thought
- POT 4054 Modern Political Theory
- POT 4204 American Political Thought
- POT 4936 Selected Topics in Political Theory
Field II: Comparative Government and Politics
- AFA 2380 History and Theory of Genocide
- AFS 2250 Culture and Society of Africa
- AFA 4931 Selected Topics in Africana Studies: Haiti
- ANT 4340 The Caribbean
- CPO 4034 Politics of the Development Areas
- CPO 4930 Comparative Government and Politics of Select Areas
- CPO 5934 Selected Topics in Comparative Politics
- ASN 3012 Japan Today
- ASN 3014 China Today
- ASN 3030 The Middle East
- EUS 3000 Europe
- EUS 3022 Russia
- LAS 3002 Latin America

Field III: International Relations
- AFA 2380 Theory and History of Genocide
- AFA 4150 Africa and the United States
- INR 3102 American Foreign Policy
- INR 4403 International Law
- INR 4035 International Political Economy
- INR 4502 International Organizations
- INR 3336 Intelligence and U.S. Foreign Policy
- INR 4254 Africa in World Affairs
- INR 3011 Globalization
- INR 3018 World Ideologies
- INR 3033 International Political Cultures
- INR 3038 International Wealth and Power
- INR 3084 International Terrorism
- INR 3141 Global Security Policy
- INR 3202 International Human Rights
- INR 4083 Conflict in the World
- INR 5086 Issues in International Relations

Field IV: American National and State Governments
- AMS 3700 Racism in American Society
- POS 2080 The American Political Tradition
- POS 3182 Florida Politics and Government
- POS 4413 The American Presidency
• POS 2112 State and Local Government and Politics
• POS 3453 Political Parties and Interest Groups
• POS 4424 The American Congress
• POS 3173 Southern Politics
• POS 4204 Political Behavior, Public Opinion and Elections
• PUP 4323 Women and Politics

Field V: Urban Government and Politics
• POS 3142 Introduction to Urban Politics and Government
• URP 4050 City Planning and Community Development

Field VI: Public Policy
• INR 3102 American Foreign Policy
• PUP 4203 Environmental Politics and Policy
• PUP 4002 Public Policy
• PUP 4323 Women and Politics
• PUP 5607 Public Policy and Health Care
• URP 4050 City Planning and Community Development

Field VII: Law and Politics
• AMS 3700 Racism in American Society
• INR 4403 International Law
• POS 3691 Introduction to Law and Politics
• POS 4614 Constitutional Law I
• POS 4624 Constitutional Law II
• POS 3283 Judicial Process and Politics
• POS 3697 Environmental Law
• POS 4693 Women and Law I
• POS 4694 Women and Law II

The following courses are not included within any of the seven fields, but may still be used as elective hours:
• AMH 3571 African American History to 1865
• AMH 3572 African American History to 1865
• PAD 3003 Introduction to Public Administration
• PAD 4144 Non-Profit & Public Policy
• PAD 4415 Personnel & Supervision in Today's Organization
• URP 4052 Urban and Regional Planning
• PAD 4204 Public Financial Administration
• POS 4941 Field Work
POS 4905 Independent Study
POS 4910 Individual Research
POS 3931 Selected Topics (POS 3931 can be repeated more than twice as a POL Elective. However, the Selected Topic course title listed with the course must be different each time taken to earn major credit)
POS 4109 Politics and Literature

GRADING REQUIREMENT
A grade of C- or better is required in all core courses.

RESIDENCY REQUIREMENT
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.

OTHER REQUIREMENTS
All Political Science majors are required to take at least three (3) credit hours of Economics coursework.

RESEARCH OPPORTUNITIES
All undergraduate students in any degree program can participate in undergraduate research. There are a number of options to receive academic credit for a mentored research experience and to have the experience show on the official transcript. Students who wish to enroll in an undergraduate research course should consult with their academic advisor to understand how the credit will apply towards the degree requirements. If no credit is needed, students may be eligible to enroll in the 0-credit IDS 2912, IDS 4914 or IDH 4910 courses. These courses will not impact degree credits or GPA but will show on an official transcript and document the experience. The Office of Undergraduate Research will assist students in understanding the various course options.

INTERNSHIP OPPORTUNITIES
Political Science has a fieldwork program that allows students to obtain 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, please refer to http://gia.usf.edu/el/.

OTHER INFORMATION
The Political Science major offers a pre-law plan designed for 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 and refer to http://hennarot.forest.usf.edu/main/depts/IGS/undergraduate/pre-law-track/.

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.

Students should plan to take the test at least one year prior to planned enrollment in law school.

ADVISING INFORMATION
To contact an advisor you may visit http://hennarot.forest.usf.edu/main/depts/IGS/undergraduate/political-science/ or and to schedule an appointment, please go to http://usfweb3.usf.edu/appointments/StudentSignon.asp.
POLITICAL SCIENCE FACULTY


B.A. - PSYCHOLOGY (PSY)  
(CIP = 42.0101)  
TOTAL DEGREE HOURS: 120

http://psychology.usf.edu/ug/major/

The undergraduate program in Psychology offers the student a well-rounded liberal arts education. In addition, the program provides excellent training for qualified students who wish to pursue graduate work in such disciplines as Clinical, Cognitive and Neural Sciences or Industrial Psychology, Education, Gerontology, Counseling, Management, Medicine, Law, and other human service programs. The undergraduate major emphasizes the breadth of psychology while allowing the student some electives to pursue in depth a particular aspect of the field. Interested undergraduate majors may apply for admission to the Honors Program.

STATE MANDATED COMMON COURSE PREREQUISITES

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 General Education 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.

Transfer students are also required to comply with the immunization, foreign language, and continuous enrollment policies of the university.

Students should complete the following prerequisite courses 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 in prerequisite courses.

- BSC X0XX General Biology course or BSC X20X or ZOO X010
- PSY X012 Introduction to Psychological Science
- PSY XXXX or CLP XXXX or DEP XXXX or EAB XXXX or EXP XXXX or INP XXXX or PCO XXXX or PPE XXXX or PSB XXXX
- STA XXXX

REQUIREMENTS FOR THE MAJOR IN PSYCHOLOGY

TOTAL MAJOR HOURS: 34

MAJOR REQUIREMENTS FOR THE B.A. DEGREE:

MAJOR CORE (25 HOURS)

Majors must complete at least 34 credit hours of specified Psychology major coursework.

1. Introductory Psychology Requirements (10 credit hours):
   - PSY 2012 Introduction to Psychological Science
   - PSY 3204 Psychological Statistics or any approved statistics course
   - PSY 3213 Research Methods in Psychology
After the introductory psychology requirements, students may choose among courses within the following categories to satisfy the remaining requirements.

2. **One Methods Course:** (3 credit hours):
   - CLP 4433 Psychological Tests and Measurements
   - PSY 4205 Experimental Design and Analysis

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

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

**MAJOR ELECTIVES (9 HOURS)**

Psychology Elective Courses (9 credit hours):

If a student takes PSY 3204 to meet the statistics requirement, the student must take three Psychology elective courses (9 credit hours). However, if a student took a different statistics course, the student must take four Psychology elective courses (12 credit hours).

The Psychology elective courses may be chosen from the courses listed in the above categories beyond the required number for each group and/or any of the following:

- CBH 4004 Comparative Psychology
- CLP 4134 Abnormal Child Psychology
- CLP 4314 Health Psychology**
- CLP 4414 Behavior Modification
- CLP 4941 Community Practicum in Selected Topics
- EXP 4640 Psychology of Language
- GEY 4612 Psychology of Aging**
- IDS 4942 Community Internship
- SOP 4702 Psychology of Gender**
- PSB 3444 Drugs and Behavior**
- PSY 4215 Discovering Research in Psychology
- PSY 4913 Directed Study (instructor's permission is required to take this course)
- PSY 4931 Select Topics: Seminar (generally this course requires the instructor's permission)

**No prerequisite required.
PSY 3204 or other approved statistics course is the prerequisite to PSY 3213. PSY 3213 is the prerequisite to all of the upper-level Psychology coursework, with the exception of CLP 4314 Health Psychology, PSB 3444 Drugs and Behavior, SOP 4702 Psychology of Gender, and GEY 4612 Psychology of Aging.

No more than a total of three (3) hours of PSY 4913 Directed Study or PSY 4970 Honors Thesis or CLP 4941 Community Practicum or IDS 4942 Community Internship may count toward the major.

PSY 4931 Select Topics, may be repeated three (3) times for credit under three different topics.

DEP 3103 Child Psychology, SOP 3742 Psychology of Women, SYP 3000 Social Psychology, PSY 4932 Honors Seminar and PSY 4974 Honors Psych Seminar Second do not count toward the major requirements.

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 Undergraduate Coordinator and students notified of results by email.

Undergraduate Coordinator decisions may be appealed in writing to the Psychology department's Undergraduate Program Committee.

GPA REQUIREMENTS

A major GPA of 2.0 minimum is required for graduation.

COURSE GRADE REQUIREMENT

A C- is allowable for individual courses.

GRADING REQUIREMENT

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.

RESIDENCY REQUIREMENT

Students transferring credit hours toward a major in Psychology must complete a minimum of 15 credit hours within the Department at USF, regardless of the number of credit hours transferred.
RESEARCH OPPORTUNITIES

The Department of Psychology offers the opportunity for students to participate in undergraduate research with Psychology faculty. Students who wish to enroll in an undergraduate research course (PSY 4913 Directed Study) with a Psychology faculty member should consult with their academic advisor to understand how the credit will apply towards the degree requirements. If no credit is needed, students may be eligible to enroll in a 0-credit research course. These courses will not impact degree credits or GPA but will show on an official transcript and document the experience. The Academic Advisors in the Department of Psychology, as well as The Office for Undergraduate Research can assist students in understanding the various course options.

OPTIONAL HONORS PROGRAM

Psychology Honors Program

The purpose of the Honors Program is to provide a select group of qualified undergraduate Psychology majors an opportunity to undertake an intensive individualized research experience. The culmination of the Honors Program is the completion and defense of an honors thesis. Application for the program will take place during the first semester of the student's junior year or, typically, prior to completion of 90 semester credits. Admission to the program is competitive and based on the student's overall academic record, performance in psychology courses, a letter of recommendation from a member of the Department of Psychology's faculty, agreement of a faculty member to serve as the thesis advisor, and strong performance in the Discovering Research in Psychology course, if offered.

Successful completion of the program requires:

- A GPA of 3.50 in all major coursework,
- An overall GPA of 3.25 at USF, and,
- Completion of 43 hours in Psychology including PSY 4932 Honors Seminar, PSY 4974 Honors Seminar Second Semester, and 6 hours of PSY 4970 Honors Thesis.

Please see the Department of Psychology's website (http://psychology.usf.edu) for details and the application form.

ADVISING INFORMATION

Department of Psychology Undergraduate Advising: psychad@usf.edu or http://psychology.usf.edu/ug/advising/.

PSYCHOLOGY FACULTY

The B.S. in Quantitative Economics and Econometrics is a baccalaureate degree focusing on the more analytical and applied aspects of economics, including forecasting, program and business evaluation, benefit/cost analysis and economic impact analysis.

STATE MANDATED COMMON COURSE PREREQUISITES

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 General Education 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.

Transfer students are also required to comply with the immunization, foreign language, and continuous enrollment policies of the university.

Students should complete the following prerequisite courses 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 in prerequisite courses.

- ECO X013 Economic Principles: Macroeconomics and ECO X023
- ECO XXXX and ECO XXXX

REQUIREMENTS FOR THE MAJOR IN QUANTITATIVE ECONOMICS AND ECONOMETRICS

TOTAL MAJOR HOURS: 33

MAJOR REQUIREMENTS FOR THE B.S. DEGREE:

MAJOR CORE (30 HOURS)

- ECO 2013 Economic Principles: Macroeconomics
- ECO 2023 Economic Principles: Microeconomics
- ECO 2052 Analytical Tools for Economists
- ECO 3101 Intermediate Price Theory
- ECO 3203 Intermediate Macroeconomics
- ECO 4401 Introduction to Mathematical Economics
- ECO 4421 Introduction to Econometrics
- STA 2023 Introductory Statistics I

Choose two of the following courses:
- ECO 4105 Advanced Price Theory
- ECO 4201 Advanced Macroeconomics Theory
- ECO 4935 Selected Topics in Economics: Forecasting and Time Series Analysis
### MAJOR ELECTIVES (3 HOURS)

- ECO 3703 International Economics
- ECO 4303 History of Economic Thought
- ECO 4504 Public Finance
- ECO 4704 International Trade and Policy
- ECP 3203 Labor Economics
- ECP 3302 Environmental Economics
- ECP 3403 Industrial Organization
- ECP 3413 Economics of Regulation and Antitrust
- ECP 3530 Economics of Health
- ECP 3613 Urban Economics
- ECP 3623 Regional Economics
- ECP 4006 Economics of Sport
- ECP 4451 Law and Economics
- ECP 4505 Economics of Crime
- ECP 4510 Economics of Education
- ECS 3013 Economic Development
- ECS 4003 Comparative Economic Systems

**NOTE:** ECO 1000 (if taken before both ECO 2013 and ECO 2023) if student receives a C- or better may be substituted for a maximum of 3 hours of upper level elective credit.

- MAC 2233 Business Calculus or MAC 2311 Calculus I (or the equivalent) is an acceptable substitute for ECO 2052.
- QMB 3200 Business and Economics Statistics II is an acceptable substitute for STA 2023.
- ECO 2052, MAC 2233 Business Calculus, or MAC 2311 Calculus I (or the equivalent) must be taken as a prerequisite for ECO 3101 and ECO 3203.
- ECP 3703 Managerial Economics may be substituted for ECO 3101. Students may not take both for credit.
- No more than 3 hours credit can be applied toward a major from ECO 4905 and/or ECO 4914.
- Economics majors taking coursework at the other USF institutions may not be able to fulfill all Economics course requirements at those institutions.
- 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, STA 2023 (or QMB 2100) and ECO 2052 (or 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 the College of Arts and Sciences.
- 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, STA 2023 (or QMB 2100) and ECO 2052 (or 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 the College of Arts and Sciences.
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, STA 2023 (or QMB 2100), and ECO 2052 (or 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 the College of Arts and Sciences.

- 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.

**COURSE GRADE REQUIREMENT**

Students must obtain a grade of "C-" or higher in ECO 3101 or ECP 3703 in order to enroll in any course for which ECO 3101 or ECP 3703 is a prerequisite.

**GRADING REQUIREMENT**

Students must obtain a grade of "C-" or higher in all courses required for the major or minor in Economics.

**RESIDENCY REQUIREMENT**

At least 18 credit hours of Economics upper-level coursework must be taken in residence at USF.

**RESEARCH OPPORTUNITIES**

All undergraduate students in any degree program can participate in undergraduate research. There are a number of options to receive academic credit for a mentored research experience and to have the experience show on the official transcript. Students who wish to enroll in an undergraduate research course should consult with their academic advisor to understand how the credit will apply towards the degree requirements. If no credit is needed, students may be eligible to enroll in the 0-credit IDS 2912, IDS 4914 or IDH 4910 courses. These courses will not impact degree credits or GPA but will show on an official transcript and document the experience. The Office of Undergraduate Research will assist students in understanding the various course options.

**ADVISING INFORMATION**

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.

Department of Economics: econadvise@usf.edu.

**QUANTITATIVE ECONOMICS AND ECONOMETRICS FACULTY**

B.A. - RELIGIOUS STUDIES (REL)
(CIP = 38.0201)
TOTAL DEGREE HOURS: 120
http://religious-studies.usf.edu/ugrad/requirements/

Certified Global Pathway Program

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.

This program has been certified as a Global Pathway. Global Pathway programs have significant global content and align with the goals of USF’s Quality Enhancement Plan, the Global Citizens Project. Students in Global Pathway programs are well positioned to earn the Global Citizen Award and become eligible to apply for a study abroad scholarship offered by the Global Citizens Project.

STATE MANDATED COMMON COURSE PREREQUISITES

Students desiring to transfer to USF should complete an A.A. degree at a Florida College System institution. If students transfer with fewer than 60 semester hours of acceptable credit, the students must meet the University's entering freshman requirements including ACT or SAT test scores, GPA, and course requirements. Transfer students are also required to comply with the immunization, foreign language, and continuous enrollment policies of the university.

There are no State Mandated Common Prerequisites for this program. All Florida College System students are encouraged to complete the Associate degree. Students should consult with an academic advisor in their major degree area at the intended transfer institution. Students are encouraged to take several Religion courses with the REL prefix.

REQUIREMENTS FOR THE MAJOR IN RELIGIOUS STUDIES

TOTAL MAJOR HOURS: 36

MAJOR REQUIREMENTS FOR THE B.A. DEGREE:

MAJOR CORE (36 HOURS)

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.

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

All majors must take the following (15 credit hours):

- REL 2306 Contemporary World Religions
- REL 3308 World Religions
- REL 3040 Introduction to Religious Studies
- REL 3043 Introduction to Major Religious Texts
- REL 4931 Seminar in Religion

Completion 21 additional credit hours that satisfy the following requirements:

Complete 21 additional credit hours of Religious Studies courses, of which at least 18 credit hours must be at the 3000- and/or 4000-level (see listing below) and of which no more than 6 credit hours can be the following variable credit individualized courses: REL 3900 Directed Readings or REL 4910 Undergraduate Research.
• REL 2166 Introduction to Religion and Ecology
• REL 2210 Hebrew Bible/Old Testament
• REL 2240 Introduction to the New Testament
• REL 2300 Introduction to World Religions
• REL 3101 Religion and Popular Culture
• REL 3111 The Religious Quest in Contemporary Films
• REL 3114 Comedy, Tragedy, and Religion
• REL 3116 Religion and Contemporary American Holidays
• REL 3117 Religion and Contemporary American Sports
• REL 3120 Religion in America
• REL 3131 New Religions in America
• REL 3132 Witchcraft and Paganism in America
• REL 3140 Religion, Culture, and Society
• REL 3145 In Search of the Goddess
• REL 3146 Women and Religion
• REL 3170 Religion, Ethics and Society Through Film
• REL 3191 Life After Death
• REL 3280 Biblical Archaeology
• REL 3303 Comparative Religion: Judaism and Islam
• REL 3318 Introduction to Chinese Religion
• REL 3330 Religions of South Asia
• REL 3335 Gods and Goddesses of India
• REL 3340 Buddhism Truths and Paths
• REL 3363 Introduction to Islam
• REL 3367 Islam in the Modern World
• REL 3375 Issues in Caribbean Religions
• REL 3380 Native American Religions
• REL 3420 Contemporary Religious Thought
• REL 3444 Womanist Vision in Religion
• REL 3465 Religion and the Meaning of Life
• REL 3500 History of Christianity
• REL 3505 Introduction to Christianity
• REL 3561 Roman Catholicism
• REL 3602 Classics of Judaism
• REL 3607 Introduction to Judaism
• REL 3611 History of Judaism
• REL 3613 Modern Judaism
• REL 3936 Selected Topics
• REL 4108 Religion and Food
• REL 4113 The Hero and Religion
• REL 4133 Mormonism in America
• REL 4171 Contemporary Christian Ethics
• REL 4177 Comparative Religious Ethics
• REL 4188 Religion and Ecology Seminar
• REL 4193 Comparative Mysticism
• REL 4213 Early Jewish Literature
• REL 4215 Ancient Israel and the Development of the Hebrew Bible
• REL 4216 Who Wrote the Bible (Genesis-Kings)
• REL 4245 New Testament I: Gospels, Acts
• REL 4250 Jesus' Life and Teachings
• REL 4252 New Testament II: Pauline Letters
• REL 4291 Women and the Bible
• REL 4333 Hindu Texts and Contexts
• REL 4499 Classics of Christian Thought
• REL 4566 Old Order Anabaptists
• REL 4936 Selected Topics

GRADING REQUIREMENT

Only letter grades of at least C- or better will be counted toward the minimum of 24 credit hours taken at the University of South Florida for transfer students or 36 (for non-transfer students) credit hours necessary to complete the 36 credit hours required for the major.

RESEARCH OPPORTUNITIES

All undergraduate students in any degree program can participate in undergraduate research. There are a number of options to receive academic credit for a mentored research experience and to have the experience show on the official transcript. Students who wish to enroll in an undergraduate research course should consult with their academic advisor to understand how the credit will apply towards the degree requirements. If no credit is needed, students may be eligible to enroll in the 0-credit IDS 2912, IDS 4914 or IDH 4910 courses. These courses will not impact degree credits or GPA but will show on an official transcript and document the experience. The Office of Undergraduate Research will assist students in understanding the various course options.

OPTIONAL HONORS PROGRAM

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 for the program should be submitted during a student's Junior year. However, students who are in their senior year may be considered for admission, providing that they apply in the Fall Term, and meet the admission requirements. Accepted students will be notified of their admission to the Honor's Program in the Spring Term. For seniors who are accepted into the program, they will be notified by the end of the Fall Term, in which they applied.

Admissions Criteria

1. The student must have an overall GPA of at least 3.25.
2. The student must have completed REL 3040 (Introduction to Religious Studies) and at least 12 additional hours of course work in the Religious Studies Department.
3. The student's GPA in Religious Studies courses is to be at least 3.5
4. The student is to furnish a letter of recommendation from a Religious Studies faculty member who is familiar with the applicant's work.
5. The student is to furnish a statement from a Religious Studies faculty member expressing her/his willingness to serve as chair of the applicant's thesis committee.
6. The student is to submit a brief statement of qualification for the program and his or her area(s) of special interest.

At the discretion of the committee one or more of these requirements may be waived for exceptional students.

Requirements for Completion of Departmental Honors

1. Complete of a USF degree with an overall GPA of 3.25 or higher.
2. Completion of the requirements for a Religious Studies major with a GPA of 3.5 or higher in the major.
3. Completion of at least five (5) credit hours of research intensive courses with a minimum grade of B. This may be in any combination of the following: a. REL 4911 Undergraduate Research b. REL 4931 Seminar in Religion c. A 4000-level course or higher that has a research intensive component, signified by the including of a 0-credit IDS 4914.
4. Honors students are to work with their advisor to select and refine one piece of the student's written work.

This should be presented either at the Office of Undergraduate Research's annual Symposium in the Spring Semester of their senior year and/or in a separate venue arranged by the student and advisor.

Honors Program Committee

Administration of the Honors Program will be the responsibility of the department's Honors Committee. This committee will review applications, select participants, and in general oversee and evaluate the program. It is within the power of the committee to allow exceptions to admission criteria and criteria for graduation with departmental honors.

The Religious Studies Honors Program should not be confused with the University Honors College, although students may participate simultaneously in both programs.

- REL 4911 Undergraduate Research (Honors Thesis) (five credit hours)
- REL 4937 Selected Topics (Honors Seminar)
- REL 4938 Selected Topics (Honors Seminar)
ACCELERATED B.A./M.A. PROGRAM

RELIGIOUS STUDIES FACULTY

Chair & Associate Professor: M. DeJonge; Associate Chair & Master Instructor: D. deChant; Distinguished University Professor: J.F. Strange; Professor: D. Jorgensen; Associate Professors: C. Fisher; Emeritus Professors: S. Garcia, S. Mandell, M.G. Mitchell; Assistant Professors: G. Ben-Herut; Senior Instructors: P. Schneider; W. Schanbacher; Affiliated Faculty: J. Cavendish, M. Decker, T. Williams, W. Zhang.

B.A. - SOCIOLOGY (SOC)

(CIP = 45.1101 - TRACK 2 OF 2)
TOTAL DEGREE HOURS: 120

http://sociology.usf.edu/ug/

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.

STATE MANDATED COMMON COURSE PREREQUISITES

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 General Education 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.

Transfer students are also required to comply with the immunization, foreign language, and continuous enrollment policies of the university.

Students should complete the following prerequisite courses 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 in prerequisite courses.

- SYA XXXX or SYD XXXX or SYG XXXX or SYO XXXX or SYP XXXX
- SYA XXXX or SYD XXXX or SYG XXXX or SYO XXXX or SYP XXXX

REQUIREMENTS FOR THE MAJOR IN SOCIOLOGY

REQUIRED SUPPORTING COURSES FOR THE MAJOR: 3 HOURS

The following courses are prerequisite and supporting courses for this major. They are required for the major, but are not counted in the total hours for this major. The degree will not be awarded if these courses have not been taken by the end of the student’s final semester.

- STA 2122 Social Science Statistics or its equivalent

TOTAL MAJOR HOURS: 36

MAJOR REQUIREMENTS FOR THE B.A. DEGREE:

MAJOR CORE (12 HOURS)

The major consists of a minimum of 36 credit hours of Sociology coursework plus STA 2122 Social Science Statistics or its equivalent.
The minimum of 36 credit hours in Sociology must include the following four core courses (12 credit 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 (PR: STA 2122 Social Science Statistics or its equivalent)
- SYA 4935 Senior Seminar

**MAJOR ELECTIVES (24 HOURS)**

The remaining 24 hours of Sociology coursework may be comprised of any upper-level courses offered by the Sociology department. In addition, SYG 2010 Contemporary Social Problems may count toward these 24 hours of electives. No more than three hours each of SYA 4910 Individual Research and SYA 4949, Sociological Internship, may count toward the 24 hours of electives.

**Areas of Concentration**

Sociology majors may choose to complete an optional area of concentration in either "Inequality and Social Justice" or "Identity and Community" by completing one required course and three elective courses (all with a grade of C- or better) listed within the area selected. In some cases, it may be possible to complete both areas of concentration, however, students may count a particular course as an elective for only one area of concentration.

**GRADING REQUIREMENT**

Only courses in which a grade of "C-" or better is attained will count toward the minimum hours.

**RESIDENCY REQUIREMENT**

At least 27 of the 36 hours of coursework in Sociology must be USF Tampa credits.

**RESEARCH OPPORTUNITIES**

To register for Individual Research (SYA 4910) students must make arrangements with the individual faculty member with whom they wish to take the course well in advance of the semester in which the course will be taken. Departmental approval of the contract agreed upon by the student and faculty is required before the student can register for the course.

The department also offers a course, on a limited basis, Sociological Research Experience (SYA 4304). If the course is scheduled to be offered, please contact the instructor listed for approval to be admitted to the course.

**INTERNSHIP OPPORTUNITIES**

The Sociology Internship (SYA 4949) is offered if the student is concurrently enrolled in "Disability and Society" (SYO 4430), "Sustainable Consumption" (SYD 4512), and a few other specific courses, and only with permission of the instructor of that course. If you are interested in an internship connected to a specific course, please contact the undergraduate program director (mayberry@usf.edu) for further guidance and information. This course is taught as an S/U (Satisfactory/Unsatisfactory) grade and only for 1-3 credit hours. Further information about Service Internship opportunities can be found on the sociology department's webpage: [http://sociology.usf.edu/ug/internships/](http://sociology.usf.edu/ug/internships/).

**OPTIONAL HONORS PROGRAM**

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 typically apply to the Honors Program in the Spring Semester during their junior year for admission for the following Fall. If you are interested in the Undergraduate Honors Program, please contact the Undergraduate Program Director, Maralee Mayberry at mayberry@usf.edu for more information and application materials.
Minimum Eligibility Requirements:
1. Junior standing.
2. 12 semester hours of Sociology course work with a major GPA of 3.0 by the end of the semester in which application is made.
3. Overall USF GPA of 3.0 or higher.
4. Selection and approval of faculty mentor.

Completion Requirements:
1. Completion of all requirements for the major.
2. Completion of at least one upper-level elective relevant to the thesis (course must be approved by faculty mentor).
3. USF overall and major GPA of at least 3.0.
4. Successful completion of the Honors Seminar.
6. Applications for the Undergraduate Honors Program in Sociology are available in the Sociology department (CPR 209). Please make an appointment with the Undergraduate Program Director, Maralee Mayberry at mayberry@usf.edu before completing the application.

ADVISING INFORMATION
Students are strongly 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.
Shani Garza, Cooper Hall (CPR) 364, (813) 974-9249 or Brandon Kroll, Cooper Hall (CPR) 235, (813) 974-6893.

SOCIOLOGY FACULTY
Chairperson: James Cavendish; Associate Chairperson: L. Graham; Professors: E. Aranda, R. Benford, D. Jacobson, D. Loseke, M. Mayberry, J. Skvoretz; Associate Professors: J. Cavendish, S. Crawley, J. Friedman, L. Graham, C. Greek, S. Green, M. Kleiman, M. Kusenbach, C. Ponticelli, W. Tyson, E. Hordge-Freeman; Assistant Professors: S. Bingham; Beatriz Padilla; Instructors: C. Partin, E. Toothman; Professors Emeriti: E. Nesman, D. Stamps, R. Wheeler.

IDENTITY AND COMMUNITY (IDC) CONCENTRATION
(CIP = 45.1101)
TOTAL DEGREE HOURS: 120
http://sociology.usf.edu/ug/concentration/

The Department of Sociology offers an optional area of concentration in "Identity and Community" for Sociology majors. Courses included in this area of concentration focus on the changing relationships among individuals and their communities in light of technological advances, globalization, environmental crises, political developments, and social problems. This area of concentration will be listed on your official transcript and can be useful as you market your skills to potential employers after graduation.

STATE MANDATED COMMON COURSE PREREQUISITES
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 General Education 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.
Transfer students are also required to comply with the immunization, foreign language, and continuous enrollment policies of the university.

Students should complete the following prerequisite courses 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 in prerequisite courses.

- SYA XXXX or SYD XXXX or SYG XXXX or SYO XXXX or SYP XXXX (6 credit hours)

REQUIRED SUPPORTING COURSES FOR THE MAJOR: 3 HOURS

The following courses are prerequisite and supporting courses for this major. They are required for the major, but are not counted in the total hours for this major. The degree will not be awarded if these courses have not been taken by the end of the student's final semester.

- STA 2122 Social Science Statistics or its equivalent

TOTAL MAJOR HOURS: 36

MAJOR REQUIREMENTS FOR THE B.A. DEGREE:

MAJOR CORE - 12 HOURS

The minimum of 36 credit hours in Sociology must include the following four core courses (12 credit 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 (PR: STA 2122 Social Science Statistics or its equivalent)
- SYA 4935 Senior Seminar

MAJOR CORE (3 HOURS)

- SYP 4111 Identity and Community

MAJOR ELECTIVES (21 HOURS)

Select nine (9) credit hours of coursework from the following list:

- SYA 3310 Qualitative Inquiry
- SYA 4121 Queer Theory
- SYD 3700 Racial and Ethnic Relations
- SYD 4238 Immigrants to America
- SYD 4410 Urban Sociology
- SYD 4411 Urban Life
- SYG 3235 Latina/Latino Lives
- SYO 3120 Sociology of Families
- SYO 3200 Sociology of Religion
- SYO 3460 Sociology of the Media
- SYO 4204 Religion and Immigration
- SYO 4573 Social Networks
The Department of Sociology offers an optional area of concentration in "Inequality and Social Justice" for sociology majors. Course included in this area of concentration focus on the political, social, and academic intersections among inequalities and the strategies we can implement to address them in a just manner. This area of concentration will be listed on your official transcript and can be useful as you market your skills to potential employers after graduation.

STATE MANDATED COMMON COURSE PREREQUISITES

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 General Education 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.

Transfer students are also required to comply with the immunization, foreign language, and continuous enrollment policies of the university.
Students should complete the following prerequisite courses 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 in prerequisite courses.

- SYA XXXX or SYD XXXX or SYG XXXX or SYO XXXX or SYP XXXX (6 credit hours)

**REQUIREMENTS FOR THE CONCENTRATION IN INEQUALITY AND SOCIAL JUSTICE**

**REQUIRED SUPPORTING COURSES FOR THE MAJOR: 3 HOURS**

The following courses are prerequisite and supporting courses for this major. They are required for the major, but are not counted in the total hours for this major. The degree will not be awarded if these courses have not been taken by the end of the student's final semester.

- STA 2122 Social Science Statistics or its equivalent

**TOTAL MAJOR HOURS: 36**

**MAJOR REQUIREMENTS FOR THE B.A. DEGREE:**

**MAJOR CORE - 12 HOURS**

The minimum of 36 credit hours in Sociology must include the following four core courses (12 credit 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 (PR: STA 2122 Social Science Statistics or its equivalent)
- SYA 4935 Senior Seminar

**MAJOR CORE (3 HOURS)**

- SYO 4536 Inequalities and Social Justice

**MAJOR ELECTIVES (21 HOURS)**

Select nine (9) credit hours of coursework from the following list:

- SYA 4121 Queer Theory
- SYD 3700 Racial and Ethnic Relations
- SYD 4238 Immigrants to America
- SYD 4512 Sustainable Consumption
- SYD 4800 Gender and Society
- SYG 3011 Social Problems Through Film
- SYG 3235 Latina/Latino Lives
- SYO 3120 Sociology of Families
- SYO 3530 Social Inequalities in a Global Society
- SYO 4204 Religion and Immigration
- SYO 4250 Sociology of Education
- SYO 4400 Medical Sociology
• SYO 4430 Disability and Society
• SYO 4572 Hidden Structures of Social Life
• SYP 3004 Constructing Social Problems
• SYP 3060 Sociology of Sexualities
• SYP 3562 Family Violence
• SYP 4420 Consumer Culture
• SYP 4510 Sociological Aspects of Deviance
• SYP 4513 Elite Deviance
• SYP 4651 Gender, Sport and the Body
• SYA 4304 Sociological Research Experience - with approval
• SYA 4910 Individual Research - with approval
• SYA 4949 Sociological Internship - with approval
• SYA 4930 Topics in Sociology - approved topics
  o Religion and Immigration
  o LGBT Youth in Education
  o Sociology of the Body
  o Children of Immigration
  o Environment and Society
  o Political Sociology
  o Gender and Social Movements
  o Afro-Brazilian Culture and Society - summer study abroad course
  o Stratification and Mobility
  o Social Media and Globalization
  o Social Movements

The remaining 12 hours of Sociology coursework may be comprised of any upper-level courses offered by the Sociology department.

ADVISING INFORMATION

Students are encouraged to make an appointment to talk with the Sociology Department Undergraduate Advisor when they have questions about concentration courses and requirements or about which concentration courses will be offered each semester.

B.A. - STATISTICS (STC)

(CIP = 27.0501)
TOTAL DEGREE HOURS: 120

http://math.usf.edu/ug/stats/

Statistics is a science of information gathering, data analysis, and decision making. It is a discipline that blends the applied with the theoretical and our courses reflect this mix. These courses provide an excellent preparation for careers in industrial statistics, actuarial science, biostatistics, and statistical research.
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 General Education 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.

Transfer students are also required to comply with the immunization, foreign language, and continuous enrollment policies of the university.

Students should complete the following prerequisite courses 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 in prerequisite courses.

- COP XXXX  A Scientific Programming Course designed for Computer Science Majors
- MAC X311  Calculus I
- MAC X312  Calculus II - Calculus with Analytic Geometry II
- MAC X313  Calculus III
- STA 2XXX  Statistics
- BSC XXXX / XXXXL or CHM XXXX / XXXXL or PHY XXXX / XXXXL or GLY XXXX / XXXXL

REQUIREMENTS FOR THE MAJOR IN STATISTICS

TOTAL MAJOR HOURS: 46

MAJOR REQUIREMENTS FOR THE B.A. DEGREE:

MAJOR CORE (31 HOURS)

Students must complete the following four courses plus completion of one of the four lab-based Science courses (19 credit hours):

- MAC 2311  Calculus I or MAC 2281  Engineering Calculus I
- MAC 2312  Calculus II or MAC 2282  Engineering Calculus II
- MAC 2313  Calculus III or MAC 2283  Engineering Calculus III
- 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 (12 credit hours):

- STA 2023  Introductory Statistics I
- STA 3024  Introductory Statistics II
- STA 4321  Introduction to Mathematical Statistics I
- STA 4442  Introduction to Probability
MAJOR ELECTIVES (15 HOURS)

Students must complete five courses from the following list of electives (Minimum 15 credit hours):

- MAP 2302 Differential Equations
- MAS 3105 Linear Algebra
- STA 4222 Sample Survey Design
- STA 4322 Introduction to Mathematical Statistics II
- STA 4502 Nonparametric Statistical Methods
- STA 4504 Categorical Data Analysis
- STA 4702 Multivariate Statistical Methods
- STA 4852 Applied Time Series

One or two courses from another department which are of high statistical content may be taken as electives, with the prior approval of the Chair of the department.

STA 4930 Selected Topics in Statistics may be taken as electives, with the prior approval of the Chair of the department.

GRADING REQUIREMENT

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.

RESEARCH OPPORTUNITIES

All undergraduate students in any degree program can participate in undergraduate research. There are a number of options to receive academic credit for a mentored research experience and to have the experience show on the official transcript. Students who wish to enroll in an undergraduate research course should consult with their academic advisor to understand how the credit will apply towards the degree requirements. If no credit is needed, students may be eligible to enroll in the 0-credit IDS 2912, IDS 4914 or IDH 4910 courses. These courses will not impact degree credits or GPA but will show on an official transcript and document the experience. The Office of Undergraduate Research will assist students in understanding the various course options.

ADVISING INFORMATION

Please make sure to visit the following website http://www.math.usf.edu/ug/advising/ for additional information and all your advising needs.

STATISTICS FACULTY

Chairperson: L. Skrzypek; Distinguished University Professor: C.P. Tsokos; Professors: G. Ladde, K.M. Ramachandran; Assistant Professors: L. Lu, D. Shen.
The Women's and Gender Studies major focuses on feminist research and practice. WGS promotes social justice through the discovery and production of knowledge that emerges from feminist perspectives on culture and society. Students learn the analytic skills to engage the intersections of gender, race, ethnicity, class, sexuality, ability, and nationality in order to become responsible citizens in a diverse transnational environment. We expose limits in traditional higher education caused by excluding women and other marginalized groups and create knowledge that is transformative and inclusive. We connect academic work to the social, political, and economic world outside the university; in linking knowledge, research, and activism, students learn to think critically about social inequalities.

STATE MANDATED COMMON COURSE PREREQUISITES

Students desiring to transfer to USF should complete an A.A. degree at a Florida College System institution. If students transfer with fewer than 60 semester hours of acceptable credit, the students must meet the University's entering freshman requirements including ACT or SAT test scores, GPA, and course requirements. Transfer students are also required to comply with the immunization, foreign language, and continuous enrollment policies of the university.

There are no State Mandated Common Prerequisites for this program. All Florida College System students are encouraged to complete the Associate degree. Students should consult with an academic advisor in their major degree area at the intended transfer institution.

REQUIREMENTS FOR THE MAJOR IN WOMEN'S AND GENDER STUDIES

TOTAL MAJOR HOURS: 36

MAJOR REQUIREMENTS FOR THE B.A. DEGREE:

MAJOR CORE (15 HOURS)

Students must choose a total of 36 credit hours from Women's and Gender Studies courses. Transfer students may not apply more than 12 hours taken elsewhere toward the major at the University of South Florida.

Students taking Women's and Gender Studies as a second major need to complete 30 credit hours. To do so, they must make a written request to the Undergraduate Director at the time they declare Women's and Gender Studies as a second major. Courses taken in the first major may not count toward the 30 hours in Women's and Gender Studies as a second major.

- WST 3015 Introduction to Women's Studies
- WST 3311 Issues in Feminism
- WST 4002 Feminist Research Methods
- WST 4522 Classics in Feminist Theory or WST 4561 Contemporary Feminist Theory
- WST 4935 Capstone/Senior Project

MAJOR ELECTIVES (21 HOURS)

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.
GRADING REQUIREMENT

Only letter grades of at least C- will be counted credit hours required for the major.

RESEARCH OPPORTUNITIES

All undergraduate students in any degree program can participate in undergraduate research. There are a number of options to receive academic credit for a mentored research experience and to have the experience show on the official transcript. Students who wish to enroll in an undergraduate research course should consult with their academic advisor to understand how the credit will apply towards the degree requirements. If no credit is needed, students may be eligible to enroll in the 0-credit IDS 2912, IDS 4914 or IDH 4910 courses. These courses will not impact degree credits or GPA but will show on an official transcript and document the experience. The Office of Undergraduate Research will assist students in understanding the various course options.

INTERNSHIP OPPORTUNITIES

Women's and Gender Studies offers a number of internship opportunities to both majors and minors. Students work on-site and directly with a local organization and can earn from 1-3 credits. Majors may repeat the internship for a maximum of 6 credit hours; minors may repeat once for a maximum of 3 credit hours. Students interested in the internship should contact the Internship Director, Dr. Wendland.

ADVISING INFORMATION

Students electing to major, double major, or minor in Women's and Gender Studies should consult the undergraduate advisor for timely scheduling of classes.

The WGS advisor, Brandon Kroll, is located in CPR 239, and can be reached at WGSadvise@usf.edu.

WOMEN’S AND GENDER STUDIES FACULTY


B.A. - WORLD LANGUAGES AND CULTURES (WLC)

(CIP = 16.0101)

TOTAL DEGREE HOURS: 120

The B.A. in World Languages and Cultures offers students a solid foundation in language and linguistic skills as well as knowledge of diverse cultures. Students may choose one concentration: Applied Linguistics, Chinese Language and Culture, Classics, East Asian Languages and Cultures, French, French International Studies and Business, German, Italian, Russian, Spanish, Spanish International Studies and Business, or may combine two concentrations (36 credit hours: 6 credit hours major core and 15 credit hours per concentration; the French International Studies and Business and the Spanish International Studies and Business concentrations are excluded). Upon completion of the program, students will be able to interact and participate in a global environment.

STATE MANDATED COMMON COURSE PREREQUISITES

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 General Education 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.

Transfer students are also required to comply with the immunization, foreign language, and continuous enrollment policies of the university.

Students should complete the following prerequisite courses 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 in prerequisite courses.

Students should demonstrate proficiency by testing or completion of a foreign language through the intermediate level per State Mandated Common Prerequisites (see https://dlss.flvc.org/c/document_library/get_file?uuid=4f8695e3-1adc-4631-9e89-9c26fc145b54). This may be accomplished by completing 6-12 hours within the language or by demonstrated competency at the intermediate level.

REQUIREMENTS FOR THE MAJOR IN WORLD LANGUAGES AND CULTURES

TOTAL MAJOR HOURS: 30-69

MAJOR REQUIREMENTS FOR THE B.A. DEGREE:

MAJOR CORE (6 HOURS)

- LIN 3003 Language Matters
- FOT 4131 Understanding World Cultures

MAJOR ELECTIVES (24-63 HOURS)

Students must select one of the following concentrations:

- Applied Linguistics
- Chinese Language and Culture
- Classics
- East Asian Languages and Cultures
- French
- French International Studies and Business
- German
- Interdisciplinary Classical Civilizations
- Italian
- Russian
- Spanish
- Spanish International Studies and Business

RESEARCH OPPORTUNITIES

All undergraduate students in any degree program can participate in undergraduate research. There are a number of options to receive academic credit for a mentored research experience and to have the experience show on the official transcript. Students who wish to enroll in an undergraduate research course should consult with their academic advisor to understand how the credit will apply towards the degree requirements. If no credit is needed, students may be eligible to enroll in the 0-credit IDS 2912, IDS 4914 or IDH 4910 courses. These courses will not impact degree credits or GPA but will show on an official transcript and document the experience. The Office of Undergraduate Research will assist students in understanding the various course options.

ADVISING INFORMATION

World Languages Academic Advisor: languagesadvise@usf.edu
**World Languages Chairperson:** S.K. Schindler; **Professors:** P. Brescia (Spanish), M. Camara (Spanish), V.E. Peppard (Russian), C.M. Probes (French), S.K. Schindler (German); **Associate Professors:** M. Grieb (German), I. Kantzios (Classics), A. Latowsky (French), P. La Trecchia (Italian), E. Manolaraki (Classics), X. Qin (Chinese), H. Scharm (Spanish), E. Shepherd (Chinese), C. Vasquez (Linguistics), W. Zhu (Linguistics); **Assistant Professors:** D. Arbesu (Arabic), M. Amer-Thornberry (Spanish), A. De La Pava (Spanish), R. Hedrick (Classics), S. Huber (German), M. Nozu (Japanese), O. Oleynik (Russian), S. Savona (French), B. Thompson (Japanese), S. Wohlmuth (Spanish), Q. Wu (Chinese).

**Applied Linguistics & Chinese Language and Culture (WLAC) Concentration**

Requirements for the Concentration in Applied Linguistics & Chinese Language and Culture

**Applied Linguistics & East Asian Languages and Cultures (WLAE) Concentration**

Requirements for the Concentration in Applied Linguistics & East Asian Languages and Cultures

**Applied Linguistics (WLAL) Concentration** (CIP = 16.0101)

The Applied Linguistics concentration will help students comprehend a broad range of language-related issues to better understand how language functions both in the lives of individuals and in society. The coursework in this concentration will prepare students for a wide-range of career options, including pedagogical preparation for language teaching domestically or internationally, cross-cultural competency for careers in industry, and foundational knowledge in applied linguistics to be successful in graduate work in the field.

Requirements for the Concentration in Applied Linguistics

**Total Concentration Hours:** 30

**Concentration Core (6 Hours)**

Recommended Language Preparation:

Four semesters in any language or equivalent language competency prior to taking courses in the concentration.

- LIN 3010 Introduction to Linguistics
- LIN 4721 Second Language Acquisition

Concentration Electives (18 hours)

Students choose a total of six courses (18 credit hours) of Applied Linguistics coursework from the following list:

- FLE 4390 Teaching Foreign/Second Languages
- LIN 2002 Language, Culture and Film
- LIN 4350 Sound Systems in American English
- LIN 4600 Sociolinguistics: Language and Society
- LIN 4609 Language and Technology
• LIN 4701 Psycholinguistics  
• LIN 4903 Directed Readings  
• LIN 4930 Selected Topics (may be repeated; title must be different)  
• TSL 4362 Methodology of Teaching English Overseas

Of these six elective courses, one literature or culture course can be substituted (e.g. Russian Literature in Translation, Introduction to Chinese Culture, etc.)

Note: Advanced undergraduates may be able to register for the graduate-level seminars upon the recommendation of the faculty.

Students must demonstrate proficiency by testing or completion of a foreign language through the intermediate level. Native or heritage speakers or other persons with experience in a foreign language may exempt course(s) entirely.

ADVISING INFORMATION

Andrew Bird, World Languages Academic Advisor: languagesadvise@usf.edu

CLASSICS & APPLIED LINGUISTICS (WLCA) CONCENTRATION

REQUIREMENTS FOR THE CONCENTRATION IN CLASSICS & APPLIED LINGUISTICS

CHINESE LANGUAGE AND CULTURE (WLCC) CONCENTRATION  
(CIP = 16.0101)

The Chinese Language and Culture concentration is designed for students who wish to achieve advanced level proficiency in modern Mandarin Chinese language at the same time they develop the sociocultural skills necessary for interaction with Chinese counterparts in professional contexts. Chinese is spoken by more than one billion people across the globe and has been designated a national Critical Language in the US government. High level Chinese language skills equip students to be highly competitive for China-related jobs in government, international business, international law, education and the non-profit sector.

REQUIREMENTS FOR THE CONCENTRATION IN CHINESE LANGUAGE AND CULTURE

TOTAL CONCENTRATION HOURS: 30

CONCENTRATION CORE (21 HOURS)

Required Supporting Courses for the Concentration (16 credit hours)

The following courses are prerequisite/supporting courses for this concentration. They are required for the concentration, but are not counted in the total hours for this major.

• CHI 1120 Modern Chinese I  
• CHI 1121 Modern Chinese II  
• CHI 2220 Modern Chinese III  
• CHI 2221 Modern Chinese IV

Required Courses (9 credit hours):

• CHI 3241 Advanced Chinese Conversation I  
• CHI 3242 Advanced Chinese Conversation II  
• CHI 4443 Networking in China and America
Culture, Literature, and Film Courses (12 credit hours):
Student chooses 12 credit hours of coursework from the following list of courses:

- CHI 4930 Selected Topics
- CHT 3110 Traditional Chinese Literature in Translation
- CHT 3124 Introduction to Modern Chinese Literature
- CHT 3500 Introduction to Modern Chinese Culture
- CHT 3512 Contemporary Chinese Language and Society
- CHT 3520 Chinese Film

Concentration Electives (3 hours)
Student chooses three credit hours of coursework in advanced language courses (3000-4000 level), study abroad coursework in a USF program in China, or coursework in culture, literature, and film. These three credit hours of electives should be planned with a World Languages advisor.

ADVISING INFORMATION
World Languages Academic Advisor: languagesadvise@usf.edu

CLASSICS & EAST ASIAN LANGUAGE AND CULTURES (WLCE) CONCENTRATION

REQUIREMENTS FOR THE CONCENTRATION IN CLASSICS & EAST ASIAN LANGUAGE AND CULTURES

CLASSICS & FRENCH (WLCF) CONCENTRATION

REQUIREMENTS FOR THE CONCENTRATION IN CLASSICS & FRENCH

CLASSICS & GERMAN (WLCG) CONCENTRATION

REQUIREMENTS FOR THE CONCENTRATION IN CLASSICS & GERMAN

CLASSICS & ITALIAN (WLCI) CONCENTRATION

REQUIREMENTS FOR THE CONCENTRATION IN CLASSICS & ITALIAN

CLASSICS (WLCL) CONCENTRATION

TOTAL DEGREE HOURS: 120

http://languages.usf.edu/undergraduate/classics/

The Classics concentration is an interdisciplinary humanities field. We provide instruction in the Greek and Latin languages and in the Greek and Roman civilization, literature, mythology and religion. Faculty offer courses in diverse aspects of the Greek and Roman world and mentor students in the acquisition of specific applied skills through their studies. The Classics section combines the intimacy of a small liberal arts college with the wide-ranging educational and professional possibilities of a large state university. This concentration is of special interest to students who wish to teach Latin and Greek at the pre-college level, and to those who plan graduate study in a humanistic discipline including law and medicine.
REQUIREMENTS FOR THE CONCENTRATION IN CLASSICS

TOTAL MAJOR HOURS: 30-31

MAJOR REQUIREMENTS FOR THE B.A. DEGREE:

MAJOR CORE - 6 HOURS

- LIN 3003 Language Matters
- FOT 4131 Understanding World Cultures

MAJOR CORE (18-19 HOURS)

- CLT 3370 Gods, Heroes and Monsters in the Ancient World
- Student chooses one of two language tracks in either Latin or Greek:
  - **Required courses for the Latin Track (16 credit hours):**
    - LAT 1120 Beginning Latin I
    - LAT 1121 Beginning Latin II
    - LAT 2220 Intermediate Latin
    - LAT 2221 Intermediate Latin II
  - **Required courses for the Greek Track (15 credit hours):**
    - GRE 1120 Beginning Classical Greek I
    - GRE 1121 Beginning Classical Greek II
    - GRE 2220 Intermediate Classical Greek
    - GRW 3502 Survey of Greek Literature: Plato’s Republic

MAJOR ELECTIVES (6 HOURS)

- Student chooses any two courses (six credit hours) with a CLA or CLT prefix, that has not been used for another requirement with the major and/or concentration.

ADVISING INFORMATION

World Languages Academic Advisor: languagesadvise@usf.edu

CLASSICS & CHINESE LANGUAGE AND CULTURE (WLCN) CONCENTRATION

REQUIREMENTS FOR THE CONCENTRATION IN CLASSICS & CHINESE LANGUAGE AND CULTURE

CLASSICS & RUSSIAN (WLCR) CONCENTRATION

REQUIREMENTS FOR THE CONCENTRATION IN CLASSICS & RUSSIAN

CLASSICS & SPANISH (WLCS) CONCENTRATION

REQUIREMENTS FOR THE CONCENTRATION IN CLASSICS & SPANISH
The East Asian Languages and Cultures concentration is designed to provide students with opportunities to develop broad understandings of East Asia as a region through interdisciplinary explorations into the languages, literatures, cultures, film, humanities, history, geography, arts, and political institutions of China, Japan, and Korea. USF has strong programs in Chinese and Japanese, two critical languages that serve as the core of the East Asian Languages and Cultures concentration. The concentration prepares students to be highly attractive in the global marketplace and to be immediate contributors to globally-oriented organizations, companies, and institutions with strong language skills as well as broad sociocultural knowledge that situates the use of those languages in two or more countries in the region. High-level critical language skills equip students to be highly competitive for Japan- and China-related jobs in government, international business, international law, law enforcement, defense, intelligence, and the non-profit sector.

**REQUIREMENTS FOR THE CONCENTRATION IN EAST ASIAN LANGUAGES AND CULTURES**

**TOTAL CONCENTRATION HOURS: 30**

**CONCENTRATION CORE (20 HOURS)**

*Required Supporting Courses for the Concentration (8 credit hours)*

The following courses are prerequisite/supporting courses for this concentration. They are required for the concentration, but are not counted in the total hours for this major. A student chooses either Chinese or Japanese coursework from the following list:

- CHI 1120 Modern Chinese I
- CHI 1121 Modern Chinese II

OR

- JPN 1120 Modern Japanese I
- JPN 1121 Modern Japanese II

**Concentration Language Requirement (11 credit hours)**

Students completing the East Asian Studies concentration must complete a minimum of two semesters of coursework in two East Asian languages and complete at least two courses beyond CHI 1121 or JPN 1121 in one of those languages.

**Japanese Focus Required Language Courses:**

- JPN 2220 Modern Japanese III
- JPN 2221 Modern Japanese IV
- JPN 3400 Modern Japanese V
Chinese Focus Required Language Courses:
- CHI 2220 Modern Chinese III
- CHI 2221 Modern Chinese IV
- CHI 3241 Advanced Chinese Conversation I

Concentration Regional Focus Requirement (3 credit hours)
Student chooses three (3) credit hours of coursework from the following list of courses:
- ASN 3201 East Asian Cinema
- ASN 4414 Introduction to East Asian Cultures

Concentration Literature, Culture, and Film Requirement (6 credit hours)
Student chooses six (6) credit hours of coursework from the following list of courses:
- ARH 4530 Asian Art
- ASN 3012 Japan Today
- CHI 4905 Directed Study
- CHI 4930 Selected Topics
- CHT 3110 Traditional Chinese Literature in Translation
- CHT 3124 Introduction to Modern Chinese Literature in Translation
- CHT 3500 Introduction to Modern Chinese Culture
- CHT 3512 Contemporary Chinese Language and Society
- CHT 3520 Chinese Film
- JPN 4020 Japanese Calligraphy
- JPN 4930 Selected Topics

Concentration Electives (3 hours)
Student chooses three credit hours of coursework in Chinese or Japanese language courses, study abroad coursework in a USF program in China or Japan, or coursework in culture, literature, and film with a significant focus on China, Japan, or East Asia as a region. These three credit hours of electives should be planned with a World Languages advisor.

ADVISING INFORMATION
World Languages Academic Advisor: languagesadvise@usf.edu

FRENCH & APPLIED LINGUISTICS (WLFA) CONCENTRATION

REQUIREMENTS FOR THE CONCENTRATION IN FRENCH & APPLIED LINGUISTICS
The undergraduate concentration in French International Studies and Business prepares students academically and practically for professions in international business, government and politics where proficiency in French is an asset.

**REQUIREMENTS FOR THE CONCENTRATION IN FRENCH INTERNATIONAL STUDIES AND BUSINESS**

**TOTAL CONCENTRATION HOURS: 69**

**CONCENTRATION CORE (63 HOURS)**

- **Concentration Core (12 credit hours)**
  - FRE 2201 French IV
  - FRE 2240 Intermediate Spoken French in Cultural Context
  - FRE 3234 Reading in French Literature and Culture
  - FRE 3420 Written French in Cultural Context

- **Concentration Supporting French Courses (12 credit hours)**
  - Student chooses 12 credit hours of 3000- and 4000-level FRE, FRT, or FRW coursework
  - Note: It is strongly recommended student take FRE 3440 French for Business and courses utilized for other requirement within this concentration may not be utilized for this requirement.

- **Concentration Business Courses (18 credit hours)**
  - ACG 3074 Managerial Accounting for Non-Business Majors
  - ECO 1000 Basic Economics
  - FIN 3403 Principles of Finance
  - MAN 3025 Principles of Management
  - MAR 3023 Basic Marketing
  - XXX XXXX Capstone Course (to be determined by the Muma College of Business)

- **Concentration Supporting Business Courses (6 credit hours)**
  - Choose any two (2) upper-level International Business courses (FIN 3604 or MAN 4600 or MAR 4156)

- **Required courses in International Studies (9 credit hours)**
  - CPO 2002 Introduction to Comparative Politics
  - CPO 4930 Comparative Government & Politics of Select Areas
  - EUS 3000 Europe

- **Required overseas study courses and/or area studies courses (6 credit hours)**
  - Select six (6) overseas study credit hours or three (3) credit hours of overseas study plus three (3) credit hours of area studies courses planned with an advisor.

**ADVISING INFORMATION**

World Languages Academic Advisor: languagesadvise@usf.edu
### COLLEGE OF ARTS & SCIENCES

**FRENCH & CHINESE LANGUAGE AND CULTURE (WLFC) CONCENTRATION**

**REQUIREMENTS FOR THE CONCENTRATION IN FRENCH & CHINESE LANGUAGE AND CULTURE**

**FRENCH & EAST ASIAN LANGUAGES AND CULTURES (WLFE) CONCENTRATION**

**REQUIREMENTS FOR THE CONCENTRATION IN FRENCH & EAST ASIAN LANGUAGES AND CULTURES**

**FRENCH & GERMAN (WLFG) CONCENTRATION**

**REQUIREMENTS FOR THE CONCENTRATION IN FRENCH & GERMAN**

**FRENCH & ITALIAN (WLFI) CONCENTRATION**

**REQUIREMENTS FOR THE CONCENTRATION IN FRENCH & ITALIAN**

**FRENCH (WLFR) CONCENTRATION**  
(CIP = 16.0101)

The undergraduate concentration in French offers solid academic and practical training in the language, literature, and culture of France and the French-speaking world in an engaged, full-immersion environment. Students have the opportunity to attain an advanced level of French with regard to comprehension, reading, writing, and speaking. Successful students become conversant in many of the major issues, past and present, relating to French and Francophone cultures, literatures, and civilizations. French graduates are attractive to employers in numerous fields, in addition to graduate and professional schools. USF alumni in French may be found in such professions as education, business, foreign service, politics, law and health.

**REQUIREMENTS FOR THE CONCENTRATION IN FRENCH**

**TOTAL CONCENTRATION HOURS: 33**

**CONCENTRATION CORE (27 HOURS)**

*Recommended Language Preparation*

Four semesters or equivalent language competency prior to taking courses in the concentration.

Student chooses nine courses from the following list of courses:

- FRE 2201 French IV
- FRE 2240 Intermediate Spoken French in Cultural Context
- FRE 2241 Spoken French in Cultural Context
- FRE 3234 Reading in French Literature and Culture
- FRE 3420 Written French in Cultural Context
- FRE 3440 French for Business
- FRE 3500 French Civilization
- FRE 3502 The Francophone World: A Global Culture
- FRE 4421 Advanced Written French in Cultural Context
FRE 4471 Advanced Overseas Study
FRE 4700 French Linguistics
FRE 4930 Selected Topics (with prior approval of the advisor)
FRT 3001 Great French Love Stories in Translation (taught in English)
FRT 3140 French Literary Masterpieces in English Translation (taught in English)
FRW 4100 The French Novel
FRW 4101 Introduction to French Drama and Poetry

Please note the following restrictions:

- Students may choose only one FRT prefixed course (taught in English) to count toward the concentration requirements.

ADVISING INFORMATION

World Languages Academic Advisor: languagesadvise@usf.edu

FRENCH & SPANISH (WLFS) CONCENTRATION

REQUIREMENTS FOR THE CONCENTRATION IN FRENCH & SPANISH

FRENCH & RUSSIAN (WLFU) CONCENTRATION

REQUIREMENTS FOR THE CONCENTRATION IN FRENCH & RUSSIAN

GERMAN & APPLIED LINGUISTICS (WLGA) CONCENTRATION

REQUIREMENTS FOR THE CONCENTRATION IN GERMAN & APPLIED LINGUISTICS

GERMAN & CHINESE LANGUAGE AND CULTURE (WLGC) CONCENTRATION

REQUIREMENTS FOR THE CONCENTRATION IN GERMAN & CHINESE LANGUAGE AND CULTURE

GERMAN & EAST ASIAN LANGUAGES AND CULTURES (WLGE) CONCENTRATION

REQUIREMENTS FOR THE CONCENTRATION IN GERMAN & EAST ASIAN LANGUAGES AND CULTURES

GERMAN & ITALIAN (WLGI) CONCENTRATION

REQUIREMENTS FOR THE CONCENTRATION IN GERMAN & ITALIAN
GERMAN (WLGM) CONCENTRATION

(CIP = 16.0101)

http://languages.usf.edu/undergraduate/german/

The concentration in German prepares students to understand and critically evaluate the language and cultures of German-speaking countries. The program prepares students in communicative proficiency and cultural literacy so that they are able to competently engage in global and transcultural interactions in the 21st century. Students will be prepared for positions in education, international business, foreign affairs, the arts, politics, and international law.

REQUIREMENTS FOR THE CONCENTRATION IN GERMAN

TOTAL CONCENTRATION HOURS: 30

CONCENTRATION CORE (9 HOURS)

Student chooses nine credit hours of 3000- or 4000-level coursework in German (taught in German).

- GER 3333 German Language & Culture through Film
- GER 3420 Composition I
- GER 3440 German for Business and International Trade
- GER 3500 The Germans – Past and Present
- GER 3501 Urban Life & Culture in Germany
- GER 3573 Cultural Observations in Germany
- GER 4410 Conversation II
- GER 4421 Composition II

Concentration Electives (15 hours)

Student chooses 15 credit hours of 2000-, 3000- or 4000-level coursework in German (taught in German or English), including approved courses in related disciplines, planned with an advisor.

- GER 2200 German III
- GER 2201 German IV
- GER 2240 Conversation I
- GET 3103 German Literature in English Translation
- GET 3522 Fantastic Films of Early German Cinema
- GET 3524 German Popular Film
- GET 4250 Dungeons, Dragons & Dwarves Germanic Myth & Pop Cult
- GET 4523 New German Cinema to Present
- GET 4528 German Directors in Hollywood
- GEW 4100 Survey of German Literature I
- GEW 4101 Survey of German Literature II
- GEW 4900 Directed Study
- GEW 4930 Selected Topics (topics approved in advance by advisor)

Note: A maximum of 6 credits hours of 2000-level coursework may be applied toward the concentration electives.
## ADVISING INFORMATION

World Languages Academic Advisor: languagesadvise@usf.edu

### GERMAN & RUSSIAN (WLGR) CONCENTRATION

### REQUIREMENTS FOR THE CONCENTRATION IN GERMAN & RUSSIAN

### GERMAN & SPANISH (WLGS) CONCENTRATION

### REQUIREMENTS FOR THE CONCENTRATION IN GERMAN & SPANISH

### INTERDISCIPLINARY CLASSICAL CIVILIZATIONS & APPLIED LINGUISTICS (WLIA) CONCENTRATION

### REQUIREMENTS FOR THE CONCENTRATION IN INTERDISCIPLINARY CLASSICAL CIVILIZATIONS & APPLIED LINGUISTICS

### INTERDISCIPLINARY CLASSICAL CIVILIZATIONS (WLIC) CONCENTRATION

**TOTAL DEGREE HOURS: 120**

[http://languages.usf.edu/undergraduate/classics/degreq/](http://languages.usf.edu/undergraduate/classics/degreq/)

This concentration is of special interest to students who wish to study broadly the literature, history art, and archaeology, philosophy, and religion of Greece, Rome and the Near East, equally emphasizing language and translation courses.

### REQUIREMENTS FOR THE CONCENTRATION IN INTERDISCIPLINARY CLASSICAL CIVILIZATIONS

**TOTAL MAJOR HOURS: 31**

### MAJOR REQUIREMENTS FOR THE B.A. DEGREE:

#### MAJOR CORE - 6 HOURS

- LIN 3003 Language Matters
- FOT 4131 Understanding World Cultures

#### MAJOR CORE (7 HOURS)

Recommended Language Preparation

Two semesters or equivalent language competency prior to taking the language core course.

- CLT 3370 Gods, Heroes and Monsters in the Ancient World
- LAT 2220 Intermediate Latin or GRE 2220 Intermediate Classical Greek

#### MAJOR ELECTIVES (18 HOURS)

Concentration Classics Field Electives (3 credit hours)

Student choose one course from the following list of courses:

- CLA 3103 Daily Life in Ancient Greece
- CLA 3124 Daily Life in Ancient Rome
- CLT 3103 Epic Battles and Dramatic Reversals in Greek Thought
### CLT 3123 Voyages and Metamorphoses in Roman Imagination

**Concentration Interdisciplinary Field Electives (15 credit hours)**

Student chooses five 3000- and 4000-level courses from the following prefixes: ANT, ARH, CLA, CLT, EUH, GRW, HIS, HUM, LIT, LNW, PHH, PHP, and REL, with prior approval from the Interdisciplinary Classical Civilizations concentration advisor.

### Advising Information

World Languages Academic Advisor: languagesadvise@usf.edu

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ITALIAN & APPLIED LINGUISTICS (WLIP) CONCENTRATION

REQUIREMENTS FOR THE CONCENTRATION IN ITALIAN & APPLIED LINGUISTICS

INTERDISCIPLINARY CLASSICAL CIVILIZATIONS & RUSSIAN (WLIR) CONCENTRATION

REQUIREMENTS FOR THE CONCENTRATION IN INTERDISCIPLINARY CLASSICAL CIVILIZATIONS & RUSSIAN

INTERDISCIPLINARY CLASSICAL CIVILIZATIONS & SPANISH (WLIS) CONCENTRATION

REQUIREMENTS FOR THE CONCENTRATION IN INTERDISCIPLINARY CLASSICAL CIVILIZATIONS & SPANISH

ITALIAN (WLIT) CONCENTRATION (CIP = 16.0101)

http://languages.usf.edu/undergraduate/italian/

The Italian Program is an interdisciplinary program with courses in Italian language, film, literature, history, cultural studies, Italian-American studies and the culture of food offered both in Italian and English. The objective of the program is to prepare students to become receptive to the global concerns of our society increasing their capabilities in writing, speaking, intercultural literacy and effective citizenship, all skills that are useful in a variety of professions.

REQUIREMENTS FOR THE CONCENTRATION IN ITALIAN

TOTAL CONCENTRATION HOURS: 30

CONCENTRATION CORE (9 HOURS)

Recommended Language Preparation

Two semesters or equivalent language competency prior to taking the language core course.

Student choose nine credit hours from the following list of courses:

- ITA 2240 Italian Conversation
- ITA 3234 Reading and Writing in Italian
- ITA 4930 Special Topics (topics approved in advance by an advisor)
- ITT 4505 Italian Americans on Screen
- ITT 4531 Italian Food in Film

Concentration Electives (15 hours)

Student chooses 15 credit hours from the following list of courses:

- ITA 2200 Italian III
- ITA 2201 Italian IV
- ITA 3420 Composition
- ITA 4930 Special Topics (topics approved in advance by an advisor)
ITALIAN CULTURE THROUGH FILM

- ITT 3504 Italian Culture through Film
- ITW 4100 Survey of Italian Literature I
- ITW 4101 Survey of Italian Literature II
- ITW 4905 Directed Study

ADVISING INFORMATION

World Languages Academic Advisor: languagesadvise@usf.edu

ITALIAN & EAST ASIAN LANGUAGES AND CULTURES (WLIU) CONCENTRATION

REQUIREMENTS FOR THE CONCENTRATION IN ITALIAN & EAST ASIAN LANGUAGES AND CULTURES

ITALIAN & RUSSIAN (WLIZ) CONCENTRATION

REQUIREMENTS FOR THE CONCENTRATION IN ITALIAN & RUSSIAN

RUSSIAN & APPLIED LINGUISTICS (WLRA) CONCENTRATION

REQUIREMENTS FOR THE CONCENTRATION IN RUSSIAN & APPLIED LINGUISTICS

RUSSIAN & CHINESE LANGUAGE AND CULTURE (WLRC) CONCENTRATION

REQUIREMENTS FOR THE CONCENTRATION IN RUSSIAN & CHINESE LANGUAGE AND CULTURE

RUSSIAN & EAST ASIAN LANGUAGES AND CULTURES (WLRE) CONCENTRATION

REQUIREMENTS FOR THE CONCENTRATION IN RUSSIAN & EAST ASIAN LANGUAGES AND CULTURES

RUSSIAN & SPANISH (WLRI) CONCENTRATION

REQUIREMENTS FOR THE CONCENTRATION IN RUSSIAN & SPANISH
RUSSIAN (WLRS) CONCENTRATION

(CIP = 16.0101)

http://languages.usf.edu/undergraduate/russian/

The concentration in Russian seeks to prepare its students to understand the language, literature, and culture of Russia. One of the program’s primary goals is to prepare students to be able to interact productively with Russian speakers. The program seeks to develop the highest possible level of proficiency in the Russian language in each of its students as a foundation for both academic understanding and everyday communication. In order to achieve this goal, the Russian Program treats language and culture as an inextricably bound up nexus that has to be inculcated at every step of the learning process.

REQUIREMENTS FOR THE CONCENTRATION IN RUSSIAN

TOTAL CONCENTRATION HOURS: 32

CONCENTRATION CORE (8 HOURS)

- RUS 2220 Intermediate Russian I
- RUS 2221 Intermediate Russian II

Students who demonstrate sufficient proficiency may be excused from RUS 2220 and RUS 2221 (e.g., heritage learners).

Concentration Electives (18 hours)

Student chooses 18 credit hours from the following list of courses:

- RUS 3240 Russian Language & Culture through Film
- RUS 3470 Overseas Study
- RUS 4241 Russian Language & Culture through Film II
- RUS 3500 Russian Civilization
- RUT 3110 19th Century Russian Literature in English
- RUT 3111 20th Century Russian Literature in English
- RUS 4900 Selected Topics
- RUS 4905 Directed Study
- One course from an EUH, INR or PHI prefixed course, dealing with Russia (prior approval from an advisor is required)

ADVISING INFORMATION

World Languages Academic Advisor: languagesadvise@usf.edu
The concentration in Spanish International Studies and Business is an interdisciplinary program which prepares students for careers with a focus on the Spanish-speaking world. Spanish is a global language, the second most spoken native language in the world. The historical ties with Spain, the proximity of Spanish America, and the presence of many Spanish speakers in the United States make knowledge of Spanish and the culture of the Spanish-speaking world highly relevant to careers in business, international relations, and diplomacy.

REQUIREMENTS FOR THE CONCENTRATION IN SPANISH INTERNATIONAL STUDIES AND BUSINESS

TOTAL CONCENTRATION HOURS: 54-60

CONCENTRATION CORE (48-54 HOURS)

- Concentration Core (12 credit hours)
  - SPN 2201 Spanish IV
  - SPN 2240 Conversation I
  - SPN 3300 Advanced Spanish Grammar & Composition or SPN 2340 Advanced Spanish for Native Speakers I
    - or SPN 2341 Advanced Spanish for Native Speakers II
  - SPW 3030 Introduction to Hispanic Literary Studies

Note: SPN 2201 and SPN 2240 are required courses for the concentration. Students who place out of these two courses will take 6 credit hours of coursework approved in advance by an advisor.

- Concentration Supporting Spanish Courses (3-9 credit hours)
  - Student chooses 3-9 credit hours of coursework from the following list of courses:
    - SPN 3440 Spanish for Business and International Trade I
    - SPN 3441 Spanish for Business and International Trade II
    - SPN 3391 Latin American Cinema
    - SPN 3520 Spanish-American Civilization
    - SPN 3564 Spain Today: Culture and Politics in the Media
    - SPN 4410 Advanced Conversation
    - SPW 3393 Spanish Culture through Literature and Film

- Concentration Business Courses (18 credit hours)
  - ACG 3074 Managerial Accounting for Non-Business Majors
  - ECO 1000 Basic Economics
  - FIN 3403 Principles of Finance
  - MAN 3025 Principles of Management
  - MAR 3023 Basic Marketing
  - XXX XXXX Capstone Course (to be determined by the Muma College of Business)

- Required courses in International Studies (9 credit hours)
  - CPO 2002 Introduction to Comparative Politics
SPANISH (WLSP) CONCENTRATION
(CIP = 16.0101)

http://languages.usf.edu/undergraduate/spanish/

The concentration in Spanish is an interdisciplinary program, which focuses on the language and culture of the Spanish-speaking world. Spanish is a global language, the second most spoken native language in the world. The historical ties with Spain, the proximity of Spanish America, and the presence of many Spanish speakers in the United States make knowledge of Spanish and the culture of the Spanish-speaking world highly relevant to students in all disciplines.

REQUIREMENTS FOR THE CONCENTRATION IN SPANISH

TOTAL CONCENTRATION HOURS: 33

CONCENTRATION CORE (6 HOURS)

Recommended Language Preparation

Four semesters Spanish or equivalent language competency and SPN 2240 Conversation I prior to taking the core and elective courses toward the concentration. (SPN 2240 will count as a concentration elective.)

- Choose one of the following courses:
  - SPN 2340 Advanced Spanish for Native Speakers I
  - SPN 2341 Advanced Spanish for Native Speakers II
  - SPN 3300 Advanced Spanish Grammar and Composition
  - SPW 3030 Introduction to Hispanic Literary Studies

Concentration Electives (21 hours)

- Student chooses 21 credit hours of 3000- and 4000-level coursework from the following prefixes: SPN, SPT, or SPW.

Please note the following restrictions:

- A student may take no more than two courses with an SPT prefix.
- SPN 2240 Conversation I and SPN 2341 may also be counted as concentration electives, unless the course has been used to fulfill another concentration and/or major requirement.
- The requirements of SPN 3300 or SPN 2340 can be waived for qualified students. These students will take an additional coursework to satisfy the concentration requirements.

ADVISING INFORMATION

World Languages Academic Advisor: languagesadvise@usf.edu
MINOR IN AFRICANA STUDIES (AFA)

TOTAL MINOR HOURS: 18

http://africanastudies.usf.edu/undergraduate/minor/

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).

MINOR CORE (9 HOURS)

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

MINOR ELECTIVES (9 HOURS)

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

- AFA 2380 History and Theory of Genocide
- AFA 4335 Black Women in America
- AFA 4350 African American Community Research
- AFA 4931 Selected Topics in Africana Studies
- AFS 2250 Culture and Society in Africa
- AML 3604 African American Literature
- AML 4624 Black Women Writers
- AMS 3700 Racism in American Society
- ANT 4340 The Caribbean
- INR 4254 Africa in World Affairs
- PHI 4073 African Philosophy
- PHM 4120 Major Black Thinkers

ADVISING INFORMATION

Pamela Anderson, Social Science Building (SOC) 389, pkander2@usf.edu

MINOR IN AMERICAN STUDIES (AMS)

TOTAL MINOR HOURS: 18

http://humanities.usf.edu/undergraduate/as/

American Studies is an interdisciplinary field dealing with the study of the United States. By means of a combination of foundational lecture courses, core seminars, American Studies courses, and courses from relevant disciplines (literature, history, the arts, and the social or behavioral sciences), students in the American Studies program explore diverse aspects of the American experience locally, nationally, and globally.

REQUIREMENTS FOR THE MINOR IN AMERICAN STUDIES

A total of 18 credit hours is required for the minor in American Studies. At least 8 credit hours for the minor must be USF coursework.
MINOR CORE (6 HOURS)

- AMS 2030 Introduction to American Studies
- AMS 2270 Twentieth-Century American Culture

MINOR ELECTIVES (12 HOURS)

Twelve (12) hours of upper-level AMS courses or other courses approved by the undergraduate advisor.

- AMS 2201 Colonial American Culture
- AMS 2363 Issues in American Civilization
- AMS 3001 American Culture, 1880-1915
- AMS 3230 America During the 1920s and 1930s
- AMS 3260 American Culture, 1830-1860
- AMS 3302 Architecture and the American Environment
- AMS 3370 Southern Women: Myth and Reality
- AMS 3601 Material Culture and American Society
- AMS 3700 Racism in American Society
- AMS 3930 Selected Topics in American Studies
- AMS 4804 Major Ideas in America
- AMS 4910 Individual Research
- AMS 4930 Selected Topics in American Studies
- AMS 4935 Senior Seminar in American Studies
- AMS 4940 Internship in American Studies

RESIDENCY REQUIREMENT

At least 8 credit hours for the minor must be USF coursework.

MINOR IN ANTHROPOLOGY (ANT)

TOTAL MINOR HOURS: 15

http://anthropology.usf.edu/undergrad/minor/

Students in many other programs will find an anthropological perspective of benefit. 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 specific wants and needs in the context of an overall curriculum.

REQUIREMENTS FOR THE MINOR IN ANTHROPOLOGY

The minor in Anthropology consists of a minimum of 15 credit hours. Students will normally begin progress toward the minor by taking at least one course from the minor core, as these often serve as prerequisites for the electives. No more than seven (7) credit hours from the minor core will count to the minor.
MINOR CORE (3-7 HOURS)

- ANT 2000 Introduction to Anthropology
- ANT 2410 Cultural Anthropology
- ANT 2511 Biological Anthropology
- ANT 2511L Biological Anthropology Laboratory
- ANT 3101 Archaeology
- ANT 3610 Linguistic Anthropology

The remaining credit hours for the minor consist of nine (9) to twelve (12) credit hours of 4000-level elective courses in Anthropology.

MINOR ELECTIVES (9-12 HOURS)

Any combination of 4000-level courses in Anthropology totaling at least nine (9) credit hours.

GPA REQUIREMENTS

A 2.0 GPA is required for the minor.

GRADING REQUIREMENT

A C (2.0) average is required for the minor.

RESIDENCY REQUIREMENT

At least nine (9) of the credit hours that are completed toward the minor must be completed through USF Tampa coursework.

OTHER REQUIREMENTS

ADVISING INFORMATION

Students are urged to consult with an advisor to create the most beneficial set of courses.

Anthroadvise@usf.edu

MINOR IN ASTRONOMY (AST)

TOTAL MINOR HOURS: 12

The Astronomy Minor provides an in-depth overview of Astronomy from a mainly conceptual perspective. Any student wanting to learn more about the universe can earn the Minor in Astronomy regardless of their degree, including physics majors.

REQUIREMENTS FOR THE MINOR IN ASTRONOMY

A minor in Astronomy consists of 12 credit hours.
MINOR CORE (12 HOURS)

- AST 2002 Descriptive Astronomy
- AST 2004 Stellar and Galactic Astronomy
- AST 3033 Contemporary Thinking in Astronomy
- AST 3044 Archaeoastronomy

GPA REQUIREMENTS

A minimum 2.0 GPA average in the 12 credit hours is required for obtaining this minor.

GRADING REQUIREMENT

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

OTHER INFORMATION

None of the courses for the Astronomy minor count towards a Physics B.A. or B.S., and consequently Physics majors may earn a minor in Astronomy along with their Physics B.A. or B.S. degree.

ADVISING INFORMATION

Physics Advising: physics.usf.edu/ug/advising/

MINOR IN BIOMEDICAL ANTHROPOLOGY (BAN)

TOTAL MINOR HOURS: 19

This minor prepares undergraduates for futures in medical-related disciplines such as medicine, nursing, and dentistry. The required courses give students a strong foundation on evolutionary and cross-cultural factors affecting human biological variation. The elective course list provides students with ample choices among more specialized topics in biomedical anthropology.

REQUIREMENTS FOR THE MINOR IN BIOMEDICAL ANTHROPOLOGY

The minor in Biomedical Anthropology consists of a minimum of 19 credit hours.

MINOR CORE (7 HOURS)

- ANT 2511 Biological Anthropology
- ANT 2511L Biological Anthropology Laboratory
- ANT 4516 Human Variation

MINOR ELECTIVES (12 HOURS)

Students must choose among any of the following courses for a total of twelve (12) credit hours:

- ANT 2410 Cultural Anthropology
- ANT 4520C Forensic Anthropology
- ANT 4462 Health, Illness and Culture
- ANT 4465 The Anthropology of Food
- ANT 4468 Biocultural Bases of Health and Disease
- ANT 4525 Human Osteology and Osteometry
- ANT 4532 Anthropology of Infectious and Contagious Diseases
- ANT 4593 Evolution and Health
• ANT 4930 Special Topics in Anthropology, when taught as:
  o Nutritional Anthropology
  o Paleopathology
  o Neuroanthropology
  o Global Health
  o Human Reproductive Ecology
  o Anthropology of Human Growth and Development
  o Human Sexuality
  o Research in Physician-Patient Interaction

GRADING REQUIREMENT
A C (2.0) average is required for all courses that count toward the minor.

RESIDENCY REQUIREMENT
Fifty percent of the minor must be completed through USF Tampa coursework.

ADVISING INFORMATION
Students are urged to consult with an advisor to create the most beneficial set of courses.
AnthroAdvise@usf.edu

MINOR IN BIOMEDICAL PHYSICS (BPH)
TOTAL MINOR HOURS: 16

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 biology, medicine, and other related areas.

REQUIREMENTS FOR THE MINOR IN BIOMEDICAL PHYSICS
A minor in Biomedical Physics consists of 16 credit hours.

MINOR CORE (16 HOURS)
• PHY 2048* or 2053 General Physics I
• PHY 2048L or 2053L General Physics I Lab
• PHY 2049* or 2054 General Physics II
• PHY 2049L or 2054L General Physics II Lab
• PHZ 4702 Applications of Physics to Biology and Medicine I
• PHZ 4703 Applications of Physics to Biology and Medicine II

*NOTE: PHY 2060 may substitute for PHY 2048 and PHY 2061 may substitute for PHY 2049.

GPA REQUIREMENTS
A minimum 2.0 GPA average in the 16 credit hours is required for obtaining this minor.

GRADING REQUIREMENT
A "C-" is the minimum acceptable grade for any course in the minor.
OTHER REQUIREMENTS

The Biomedical Physics minor is not available to Physics majors. Physics majors with an interest in Biophysics should consider taking the Biophysics course which is available as an upper-level elective.

MINOR IN CHEMISTRY (CHM)

TOTAL MINOR HOURS: 24

http://chemistry.usf.edu/undergraduate/minor/

The Chemistry minor provides a broad and general exposure to the traditional areas of the chemical sciences.

REQUIREMENTS FOR THE MINOR IN CHEMISTRY

MINOR CORE (14 HOURS)

- CHM 2045 General Chemistry I
- CHM 2045L General Chemistry I Laboratory
- CHM 2046 General Chemistry II
- CHM 2046L General Chemistry II Laboratory
- CHM 2210 Organic Chemistry I
- CHM 2210L Organic Chemistry I Laboratory
- CHM 4060 Use of Chemical Literature

MINOR ELECTIVES (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 3053 General Biochemistry
- BCH 4033 Advanced Biochemistry I
- BCH 4034 Advanced Biochemistry II
- BCH 3023L Basic Biochemistry Laboratory
- CHM 2211 Organic Chemistry II
- CHM 2211L Organic Chemistry II Laboratory
- CHM 3120C Elementary Analytical Chemistry
- CHM 3610 Intermediate Inorganic Chemistry
- CHM 3610L Intermediate Inorganic Chemistry Laboratory
- CHM 4230 Spectroscopic Analysis of Organic Compounds
- CHM 4274 Introduction to Drug Discovery
- CHM 4292 Introduction to Medicinal Chemistry
- CHM 4300 Biomolecules I
- CHM 4307 BioOrganic Chemistry
- CHM 4410 Physical Chemistry I
- CHM 4410L Physical Chemistry Laboratory
### MINOR IN CHINESE LANGUAGE (CHN)

**TOTAL MINOR HOURS: 18**


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 Language is designed to equip students with a foundation in Chinese language and culture necessary to successfully interact with Chinese people.

### REQUIREMENTS FOR THE MINOR IN CHINESE LANGUAGE

A total of 18 semester hours is required for the minor in Chinese Language. Of those 18 hours, 12 hours are to be fulfilled with required core courses in language, culture, and literature. An additional 6 hours are to be fulfilled with electives selected in consultation with a Chinese faculty advisor.

#### MINOR CORE (12 HOURS)

- CHI 3241 Advanced Chinese Conversation I
- CHI 3242 Advanced Chinese Conversation II
- CHT 3500 Introduction to Chinese Culture
- CHT 3110 Traditional Chinese Literature in Translation or CHT 3124 Modern Chinese Literature in Translation

#### MINOR ELECTIVES (6 HOURS)

- CHI 4905 Directed Study
- CHI 4930 Selected Topics

### RESIDENCY REQUIREMENT

A minimum of 10 of the 18 hours required for the minor must be completed in residence at USF.
MINOR IN CLASSICS (CLC)

TOTAL MINOR HOURS: 17

http://languages.usf.edu/undergraduate/classics/

The interdisciplinary minor is designed to make the study of the ancient world available to students, in a programmatic way, without the requirement of learning Latin or Greek. Students learn about the history, literature, art and culture of antiquity in courses that emphasize the study of primary texts in English translation.

REQUIREMENTS FOR THE MINOR IN CLASSICS

The Classics minor requires 17 credit hours, which are divided between language and civilization requirements.

MINOR CORE (17 HOURS)

- **Language Requirements** (8 credit hours)
  - Students are required to take at least two (2) successive courses in a single language, Latin or Ancient Greek (LAT, LNW, GRE, GRW).

- **Civilization Requirements** (9 credit hours)
  - Students are required to take three (3) of the core courses offered by Classics:
    - CLA 3103 Daily Life in Ancient Greece
    - CLA 3124 Daily Life in Ancient Rome
    - CLT 3103 Epic Battles and Dramatic Reversals in Greek Thought
    - CLT 3123 Voyages and Metamorphoses in Roman Imagination
    - CLT 3370 Gods, Heroes, and Monsters in the Ancient World

ADVISING INFORMATION

World Languages Academic Advisor: languagesadvise@usf.edu

Dr. Eleni Manolaraki (emanolar@usf.edu)

MINOR IN COMMUNICATION (SPE)

TOTAL MINOR HOURS: 18

http://communication.usf.edu/undergraduate/minor/

The minor in Communication prepares students to communicate effectively and ethically in a variety of relationships and contexts (see description of the major). Students may choose to emphasize a particular area of study including human relationships, health communication, public communication, media and culture, public advocacy, performance, organizational communication, leadership, diversity, or applied communication.

REQUIREMENTS FOR THE MINOR IN COMMUNICATION

The minor in Communication requires a minimum of 18 hours of departmental coursework.
MINOR CORE (6 HOURS)

- SPC 2608 Public Speaking
- COM 2000 Introduction to Communication

MINOR ELECTIVES (12 HOURS)

Twelve credit hours may be selected from among departmental offerings and must include a minimum of 6 hours at the 3000-level or higher.

GRADING REQUIREMENT

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.

MINOR IN CREATIVE WRITING (CRW)

TOTAL MINOR HOURS: 15

http://english.usf.edu/ug/concentrations/creative/

REQUIREMENTS FOR THE MINOR IN CREATIVE WRITING

MINOR CORE (15 HOURS)

- CRW 3111 Form and Technique of Fiction
- CRW 3311 Form and Technique of Poetry
- 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
- Any major course listed in the Literary Studies concentration including a 2000-level LIT course

GRADING REQUIREMENT

A grade of below C- will not be counted toward fulfilling the minor requirements.

MINOR IN ECONOMICS (ECO)

TOTAL MINOR HOURS: 18

http://economics.usf.edu/undergraduate/minor/

Economics focuses on critical thinking and problem solving skills, which means the Minor in Economics can pair well with any Major.

REQUIREMENTS FOR THE MINOR IN ECONOMICS

All students, regardless of college, can earn a minor in Economics by satisfactorily completing 18 hours in Economics.
## COLLEGE OF ARTS & SCIENCES

### UNIVERSITY OF SOUTH FLORIDA 2019-20 UNDERGRADUATE CATALOG

### MINOR CORE (6 HOURS)
- ECO 2013 Economic Principles: Macroeconomics
- ECO 2023 Economic Principles: Microeconomics

### MINOR ELECTIVES (12 HOURS)
Students must choose twelve (12) credit hours of Economics electives numbered 3000 or higher (may include QMB 3200).

*ECO 1000, if taken before both ECO 2013 and ECO 2023 and student receives a C- or better, may be substituted for 3 hours of upper-level economics elective credit.*

Before being recognized as a minor in economics a student must obtain program approval by the Economics Department Undergraduate Advisor.

### GPA REQUIREMENTS
A grade point average of 2.0 or higher must be achieved in the minor course work at USF and in all minor courses completed at any institution.

### COURSE GRADE REQUIREMENT
Unless stated otherwise, a grade of “C-” is the minimum acceptable grade for all minor and supporting minor courses.

### RESIDENCY REQUIREMENT
At least 9 hours of Economics credit must be taken in residence at USF Tampa.

### OTHER INFORMATION
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.

### ADVISING INFORMATION
econadvise@usf.edu

### MINOR IN ENVIRONMENTAL POLICY (ESP)

#### TOTAL MINOR HOURS: 19

### REQUIREMENTS FOR THE MINOR IN ENVIRONMENTAL POLICY
A total of 19 credits are required for the minor in Environmental Policy.

### MINOR CORE (16 HOURS)
Required Core Courses (7 credit hours):
- EVR 2001 Introduction to Environmental Science
- EVR 2001L Introduction to Environmental Science Lab
• EVR 2861 Introduction to Environmental Policy

Three of the following four courses (9 credit hours):
• EVR 4033 Environmental Regulation
• GEO 4372 Global Conservation
• GEO 4502 Economic Geography
• PHI 3640 Environmental Ethics

MINOR ELECTIVES (3 HOURS)

Plus one approved policy-related elective.

RESIDENCY REQUIREMENT

12 credits must be completed at USF.

ADVISING INFORMATION

Please see http://hennarot.forest.usf.edu/main/depts/geosci/ug/advising/ and or contact Teresa (Tess) Ippolito, the Environmental Science and Policy Academic Advisor, for a current list of electives.

Teresa (Tess) Ippolito can be contacted via email at: GeoAdvise@usf.edu; by phone at (813) 974-3250; and her office location is Science Center (SCA) 207.

MINOR IN FILM AND NEW MEDIA STUDIES (FNM)

TOTAL MINOR HOURS: 18

http://humanities.usf.edu/undergraduate/film/

The Minor in Film and New Media Studies 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.

REQUIREMENTS FOR THE MINOR IN FILM AND NEW MEDIA STUDIES

The minor consists of 18 credit hours.

MINOR CORE (9 HOURS)

• FIL 1002 Introduction to Film Studies
• FIL 3052 Foundations of Film & New Media
• FIL 3077 Contemporary Film & New Media

MINOR ELECTIVES (9 HOURS)

Students take an additional nine (9) credit hours of upper-level coursework from Humanities and Cultural Studies with an AMS, FIL, or HUM prefix.
MINOR IN FRENCH (FRE)

TOTAL MINOR HOURS: 15

http://languages.usf.edu/undergraduate/french/

French is a truly global language, the official or second language in over 40 countries worldwide and an important tool in business and diplomacy. Our faculty offer a large variety of courses including literature and culture across genres, centuries, and geographical regions. Our faculty, a good mix of French and American scholars, is attentive and our students are close-knit. The placement record for our students is impressive, including graduates who continue to obtain advanced degrees, teachers in public and private schools including in IB programs, or even abroad in institutions such as the École Normale Supérieure in France; others apply their French to international law, business, politics, federal government jobs and to writing novels recognized by The New York Times.

REQUIREMENTS FOR THE MINOR IN FRENCH

MINOR CORE (6 HOURS)

- FRE 2240 Intermediate Spoken French in Cultural Context
- FRE 3420 Written French in Cultural Context

MINOR ELECTIVES (9 HOURS)

Select nine (9) hours in 3000-, 4000-, or 5000-level courses, except courses in translation.

OTHER REQUIREMENTS

The French minor strongly encourages study abroad and provides advice on the same. USF World offers several programs in France and Francophone countries, sometimes led by our faculty.

ADVISING INFORMATION

The French faculty work with the Department of World Languages’ advisor to optimize student success.

World Languages Academic Advisor, languagesadvise@usf.edu

MINOR IN GEOGRAPHIC INFORMATION SYSTEMS AND TECHNOLOGY (GIST)

TOTAL MINOR HOURS: 15

REQUIREMENTS FOR THE MINOR IN GEOGRAPHIC INFORMATION SYSTEMS AND TECHNOLOGY

A minor in Geographic Information Systems and Technology consists of 15 credit hours.

MINOR CORE (9 HOURS)

- GEO 3164C Research Methods in Geography
- GIS 4035C Remote Sensing of the Environment
- GIS 4043C Geographic Information Systems
MINOR ELECTIVES (6 HOURS)

Students choose two of the following courses:

- EVR 3218 Wildlife Research Techniques
- EVR 4051 Environmental Field Methods
- GEO 4114C Geographic Techniques and Methodology
- GEO 4700 Transportation Geography
- GIS 3006 Mapping & Geovisualization

GPA REQUIREMENTS

A minimum grade point average of 2.00 is required.

RESIDENCY REQUIREMENT

At least 12 credit hours must be USF Tampa coursework.

OTHER REQUIREMENTS

Students may not apply electives to the Geographic Information Systems and Technology minor if these electives are being used to satisfy their requirements in another major.

MINOR IN GEOGRAPHIC INFORMATION SYSTEMS TECHNOLOGY (GPy)

TOTAL MINOR HOURS: 15

REQUIREMENTS FOR THE MINOR IN GEOGRAPHIC INFORMATION SYSTEMS TECHNOLOGY

MINOR IN GEOLOGY (GLY)

TOTAL MINOR HOURS: 16

REQUIREMENTS FOR THE MINOR IN GEOLOGY

Sixteen (16) credit hours are required. The completion of the introductory sequence courses (4 credit hours) listed and any three Geology Core courses (12 hours).

MINOR CORE (4 HOURS)

Introductory Sequence (4 credit hours):

One course, chosen from:

- GLY 2010 Dynamic Earth: Introduction to Physical Geology
- GLY 2030 Hazards of the Earth’s Surface: Environmental Geology
- GLY 2100 History of Life
- OCE 2001 Introduction to Oceanography
- Or other comparable acceptable course offerings, as approved by the undergraduate advisor
- GLY 2000L Essentials of Geology Laboratory
MINOR ELECTIVES (12 HOURS)

Choose three of the following Geology courses:

- GEO 3280 Environmental Hydrology
- GLY 3104C Stratigraphy and Paleontology
- GLY 3311C Mineralogy, Petrology, Geochemistry
- GLY 3402C Structural Geology and Tectonics
- GLY 3552C Sedimentary Rocks and Processes

OTHER INFORMATION

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.

MINOR IN GERMAN STUDIES (GMS)

TOTAL MINOR HOURS: 15

http://languages.usf.edu/undergraduate/german/

The 15-credit hour minor in German Studies provides students with advanced oral and written proficiency in German, as well as an in-depth familiarity of the culture(s) of the German-speaking countries.

REQUIREMENTS FOR THE MINOR IN GERMAN STUDIES

The minor in German Studies comprises mid-to-advanced language and culture classes.

MINOR CORE (6 HOURS)

Students should select 6 hours of 3000- or 4000-level GEW or GER coursework in German (taught in German).

MINOR ELECTIVES (9 HOURS)

Students should select 9 hours of 2000-, 3000-, or 4000-level GER, GET or GEW coursework in German.

ADVISING INFORMATION

World Languages Advising: LanguagesAdvising@usf.edu

Dr. Stefan Huber (huber@usf.edu)

MINOR IN HISTORY (HTY)

TOTAL MINOR HOURS: 18

http://history.usf.edu/ug/minor/

The discipline of history embraces a diverse world of ideas, people and events and seeks to inform and to question, to provoke and to challenge students to a higher level of understanding of the past.

REQUIREMENTS FOR THE MINOR IN HISTORY

A minor in History is an excellent complement to any undergraduate degree that benefits from a humanities discipline.

MINOR CORE (6 HOURS)

Lower-Level Elective Courses (6 hours)

Students must select 6 credit hours from 2000-level History Department course offerings.
MINOR ELECTIVES (12 HOURS)

Upper Level Elective Courses (12 hours)

Students must select 12 credit hours from 3000- and 4000 upper-level History department course offerings.

GRADING REQUIREMENT

A minimum grade of C- or better must be attained in each course.

RESIDENCY REQUIREMENT

A minimum of eight (8) hours must be completed at the University of South Florida.

OTHER INFORMATION

Students who wish to minor in History may declare the minor via the www.history.usf.edu undergraduate web page; or may contact the undergraduate advisor at HistoryAdvise@usf.edu.

ADVISING INFORMATION

Undergraduate Advisor, History Department
HistoryAdvise@usf.edu
Location: Social Science Building (SOC) 265

MINOR IN HUMANITIES (HUM)
TOTAL MINOR HOURS: 18

http://humanities.usf.edu/undergraduate/as/

The Humanities minor program offers an interdisciplinary curriculum that investigates the visual arts, music, and literature, and the cultures from which they emerge.

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.

MINOR CORE (18 HOURS)

Eighteen semester hours of Humanities courses (HUM prefix).

- No more than six of these eighteen hours may be taken below the 3000 level.

MINOR IN INTELLIGENCE STUDIES (IQS)
TOTAL MINOR HOURS: 12

http://information-analytics.cas.usf.edu/Certificates.html

The Minor in Intelligence Studies provides an introductory foundation to the profession and practice of intelligence. Students are acquainted with the structure and function of the US Intelligence Community; ethical and professional issues in the intelligence field; intelligence analytic methods; tools and techniques for collecting/analyzing data and information from publicly available sources; and professional writing and briefing skills that are essential for effective analytic communication. This minor can complement undergraduate majors such as Political Science, International Studies, Foreign Language studies, Criminology, Business, or Social/Behavioral Sciences.
REQUIREMENTS FOR THE MINOR IN INTELLIGENCE STUDIES

MINOR CORE (12 HOURS)

- LIS 4029 Professional and Technical Communication for Analysts
- LIS 4671 Introduction to Intelligence Studies
- LIS 4672 Critical Thinking and Methods for Intelligence Analysis
- LIS 4673 Open Source Intelligence (OSINT)

GPA REQUIREMENTS

A GPA of 3.0, or better is required to meet the requirements of the minor.

RESIDENCY REQUIREMENT

Six (6) credit hours must be taken at USF.

ADVISING INFORMATION

For questions regarding the minor, please email Dr. Randy Borum: borum@usf.edu.

MINOR IN INTERDISCIPLINARY CLASSICAL CIVILIZATIONS (ICC)

TOTAL MINOR HOURS: 15-18

REQUIREMENTS FOR THE MINOR IN INTERDISCIPLINARY CLASSICAL CIVILIZATIONS

The ICC Minor (15 hours minimum) can be fulfilled in one of two ways:

MINOR CORE (15-18 HOURS)

1. Courses are divided by level, with the "field" of study unrestricted (15-18 credit hours):
   - Two courses (6 hours) from the ICC Minor "Core":
     - CLA 3103 Daily Life in Ancient Greece or CLT 3103 Epic Battles and Dramatic Reversals in Greek Thought
     - CLA 3124 Daily Life in Ancient Rome or CLT 3123 Voyages and Metamorphoses in Roman Imagination
     - CLT 3370 Gods, Heroes, and Monsters in the Ancient World
   - Three to four credit hours from 2000- or 3000-level courses in Anthropology, History, Philosophy and Religious Studies, selected with the guidance and approval of the Coordinator.
   - Six to eight credit hours from 3000- or 4000-level courses in Anthropology, History, Philosophy and Religious Studies, selected with the guidance and approval of the Coordinator.

2. Courses are organized along an interdisciplinary principle (15-18 credit hours):
   - Two courses (6 hours) from the ICC Minor "Core":
     - CLA 3103 Daily Life in Ancient Greece or CLT 3103 Epic Battles and Dramatic Reversals in Greek Thought
     - CLA 3124 Daily Life in Ancient Rome or CLT 3123 Voyages and Metamorphoses in Roman Imagination
     - CLT 3370 Gods, Heroes, and Monsters in the Ancient World
Nine to twelve credit hours from the Interdisciplinary Requirements. The student will complete three 3-4 credit courses, one each from three of the following four fields:

- Anthropology
- History
- Philosophy
- Religious Studies

3. Courses are chosen with the guidance and approval of the Coordinator from the list certified for the major.

**ADVISING INFORMATION**

World Languages Advising: LanguagesAdvise@usf.edu

**MINOR IN INTERNATIONAL STUDIES (INT)**

**TOTAL MINOR HOURS: 18**

http://usf.edu/sigs/undergraduate/

**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:

**MINOR CORE (12 HOURS)**

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

**MINOR ELECTIVES (6 HOURS)**

Two (2) upper-level courses (6 credit hours) chosen from the International Studies Program’s offerings.

**ADVISING INFORMATION**

Each student’s program must be planned with the International Studies program major advisor, who is empowered to approve appropriate substitutions when educationally justified.

For information on INT advising, please visit http://usf.edu/sigs/undergraduate/.

**MINOR IN ITALIAN (ITA)**

**TOTAL MINOR HOURS: 15**

http://languages.usf.edu/undergraduate/italian/

**REQUIREMENTS FOR THE MINOR IN ITALIAN**

**MINOR CORE (6 HOURS)**

- ITA 2240 Italian Conversation I or ITA 2241 Italian Conversation II

- ITA 3420 Composition
MINOR ELECTIVES (9 HOURS)

Students must select 9 hours in 3000- or 4000-level courses except courses in translation.

ADVISING INFORMATION

World Languages Academic Advisor: languagesadvise@usf.edu

MINOR IN LINGUISTICS (LIN)

TOTAL MINOR HOURS: 15

http://languages.usf.edu/undergraduate/linguistics/

The linguistics minor can complement any language major, as well as many other majors. In the linguistics minor, you will have the opportunity to take upper-level classes focusing on language, culture, pedagogy and theoretical linguistics. The minor can prepare you for teaching a foreign language in the United States, teaching English overseas, working for a company in which there are multinational employees, and other similar careers. It will also give you a foundation to pursue graduate work in applied linguistics or languages. Knowledge of the structure of language will help you hone your analytic thinking skills, which can be transferred to other areas such as succeeding on the LSAT or entering a career in the field of computer science. Linguistics courses can also help you improve your writing-related skills, oral communication skills, and intercultural communication.

REQUIREMENTS FOR THE MINOR IN LINGUISTICS

MINOR CORE (3 HOURS)

- LIN 3010 Introduction to Linguistics

MINOR ELECTIVES (12 HOURS)

- ANT 3610 Anthropological Linguistics
- CLT 3040 Scientific and Medical Terminology
- FLE 4390 Teaching Foreign/Second Languages
- FRE 4700 French Linguistics
- LIN 2002 Language, Culture & Film
- LIN 3003 Language Matters
- LIN 4350 Sound Systems in American English
- LIN 4600 Language and Society
- LIN 4609 Language and Technology
- LIN 4671 Traditional English Grammar
- LIN 4701 Psycholinguistics
- LIN 4721 Second Language Acquisition
- LIN 4930 Special Topics (may be repeated; title must be different)
- SPA 3004 Introduction to Language Development and Disorders
- SPN 4700 Spanish Linguistics
- TSL 4362 Methodology of Teaching English Overseas

GPA REQUIREMENTS

A minimum 2.0 GPA is required.
GRADING REQUIREMENT
A minimum grade of C- or better must be attained in each course.

RESIDENCY REQUIREMENT
A minimum of nine (9) hours must be completed at the University of South Florida.

ADVISING INFORMATION
For more information, please contact the World Languages Undergraduate Advisor, Andrew Bird (LanguagesAdvise@usf.edu), or the Linguistics Minor Coordinator, Amanda Huensch.

MINOR IN LITERARY STUDIES (LTS)
TOTAL MINOR HOURS: 15
http://english.usf.edu/data/UG_LTSminor.pdf

REQUIREMENTS FOR THE MINOR IN LITERARY STUDIES

MINOR CORE (15 HOURS)
- One AML major course
- Two ENL major courses
- One 4000-level course from the Literary Studies concentration
- One additional course from any English Department concentration: LTS, CRW, PRT

COURSE GRADE REQUIREMENT
A grade of below C- will not be counted toward fulfilling the major requirements.

MINOR IN MASS COMMUNICATIONS (COM)
TOTAL MINOR HOURS: 18
http://masscom.usf.edu/ug/minor/

The minor in Mass Communications is available to students pursuing any other major at USF.

REQUIREMENTS FOR THE MINOR IN MASS COMMUNICATIONS
The minor in Mass Communications requires a minimum of 18 hours of School coursework.

MINOR CORE (6 HOURS)
- MMC 2100 Writing for the Media
- MMC 3602 Mass Communications and Society

MINOR ELECTIVES (12 HOURS)
Twelve (12) hours may be selected from among School offerings and must include a minimum of nine (9) hours at the 3000-level or higher.
- Any MMC, ADV, JOU, PUR, RTV, VIC course

All major course prerequisites must be met.

GPA REQUIREMENTS
A 2.5 GPA in all minor coursework must be maintained.
COURSE GRADE REQUIREMENT

A grade of "D" or "F" will not be counted toward a Mass Communications minor.

RESIDENCY REQUIREMENT

All minor hours must be completed at USF.

OTHER INFORMATION

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.

MINOR IN MATHEMATICS (MTH)

TOTAL MINOR HOURS: 27

http://math.usf.edu/ug/mminor/

The Mathematics minor offers a diversity of courses designed to emphasize the broad nature of modern mathematics and its close associations with the real world.

REQUIREMENTS FOR THE MINOR IN MATHEMATICS

MINOR CORE (21 HOURS)

- MAC 2311 Calculus I or MAC 2281 Engineering Calculus I
- MAC 2312 Calculus II or MAC 2282 Engineering Calculus II
- MAC 2313 Calculus III or MAC 2283 Engineering Calculus III
- MGF 3301 Bridge to Abstract Mathematics
- MAS 3105 Linear Algebra
- MAS 3156 Vector Calculus

MINOR ELECTIVES (6 HOURS)

Complete any two (2) Mathematics courses from the following list

- COP 4313 Symbolic Computations in Mathematics
- MAA 4211 Intermediate Analysis I
- MAA 4212 Intermediate Analysis II
- MAA 4402 Complex Variables
- MAD 4203 Introduction to Combinatorics
- MAD 4301 Introduction to Graph Theory
- MAD 4401 Numerical Analysis I
- MAD 4402 Numerical Analysis II
- MAD 4504 Theory of Computation
- MAD 4471 Introduction to Cryptography and Coding Theory
- MAP 2302 Differential Equations
- MAP 4202 Optimization
- MAP 4341 Introduction to Partial Differential Equations
- MAS 4301 Elementary Abstract Algebra
- MAS 4302 Elementary Abstract Algebra II
- MHF 4406 The History of Modern Mathematics
- MTG 4214 Modern Geometry
- MTG 4254 Differential Geometry
- MTG 4302 Introduction to Topology
- STA 4321 Introduction to Mathematical Statistics I
- STA 4442 Introduction to Probability
- MAT 4930 Selected Topics in Mathematics may be taken as an elective with the prior approval of the department chair.

One course from another department which is of high mathematical content may also be taken as an elective, with the prior approval of the department chair.

RESIDENCY REQUIREMENT

A student wishing to receive a minor in Mathematics is required to take a minimum of eight (8) credit hours of required courses in the Department of Mathematics and Statistics at USF Tampa.

OTHER INFORMATION

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.

ADVISING INFORMATION

Please visit the following website http://www.math.usf.edu/ug/advising/ for additional information and all your advising needs.

MINOR IN MICROBIOLOGY (MIC)

TOTAL MINOR HOURS: 26

The Microbiology minor exists to recognize those students who wish to add a limited but sound understanding of microbiology to their major.
REQUIREMENTS FOR THE MINOR IN MICROBIOLOGY

MINOR CORE (26 HOURS)

- BSC 2010 Cellular Processes
- BSC 2010L Cellular Processes Laboratory
- PCB 3023 Cell Biology
- PCB 3023L Cell Biology Laboratory
- PCB 3063 General Genetics
- MCB 3410 Cell Metabolism or BCH 3053 General Biochemistry
- MCB 3020 General Microbiology
- MCB 3020L General Microbiology Laboratory
- MCB 4115 Determinative Bacteriology
- MCB 4115L Determinative Bacteriology Laboratory
- MCB 4320 Molecular Microbiology

GPA REQUIREMENTS

A minimum 2.0 average in the 26 credits is required for obtaining this minor.

GRADING REQUIREMENT

A grade of C- is the minimum acceptable grade for courses in the minor. Students must have less than 3 D and/or F grades in Microbiology minor lecture courses.

RESIDENCY REQUIREMENT

Students must complete a minimum of 8 hours in Microbiology minor coursework at USF Tampa.

OTHER INFORMATION

Students who are declared in any Biology or Microbiology major offered by the Department of Cell Biology, Microbiology, and Molecular Biology or the Department of Integrative Biology are ineligible for this minor.

ADVISING INFORMATION

http://biology.usf.edu/bioadvise/
(813) 974-3250 Email: bioadvise@usf.edu

REQUIREMENTS FOR THE MINOR IN MODERN GREEK (MGR)

TOTAL MINOR HOURS: 16
http://languages.usf.edu/undergraduate/

MINOR IN MODERN GREEK (MGR)

MINOR CORE (16 HOURS)

- GRK 2220 Modern Greek III
- GRK 2221 Modern Greek IV
- Two (2) four-credit hour GRK 4905 Directed Studies Courses
MINOR IN PHILOSOPHY (PHI)

TOTAL MINOR HOURS: 18

http://philosophy.usf.edu

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:

MINOR CORE (6 HOURS)

History of Philosophy – 6 credit hours:

Choose two of the following courses:

- PHH 3062 History of Western Philosophy: Ancient Philosophy
- PHH 3280 Medieval and Renaissance Philosophy
- PHH 3420 Early Modern Philosophy
- PHH 3442 Late Modern Philosophy
- PHH 4440 Continental Philosophy
- PHH 4600 Contemporary Philosophy
- PHH 4700 American Philosophy
- PHH 4820 Chinese Philosophy
- PHM 4331 Modern Political Philosophy
- PHP 3786 Existentialism
- PHP 4000 Plato
- PHP 4010 Aristotle
- PHP 4410 Kant
- PHP 4784 Analytical Philosophy
- PHP 4788 Philosophy of Marxism

MINOR ELECTIVES (12 HOURS)

Choose four courses (12 credit hours) from the following prefixes: PHH, PHI, PHM and PHP. No more than three elective hours taken at the 1000- and 2000-level may count toward the Philosophy minor. Courses taken to fulfill the six hours of History of Philosophy requirement will not count toward elective hours in the minor.

GRADING REQUIREMENT

No course taken on an "S/U" basis may be applied toward the minor.

ADVISING INFORMATION

Philosophy Advising: PhilosophyAdvise@usf.edu

Andrew Bird, 813-974-6957, ajbird@usf.edu
MINOR IN PHYSICS (PHY)

TOTAL MINOR HOURS: 17

http://physics.usf.edu/ug/degree/

REQUIREMENTS FOR THE MINOR IN PHYSICS

MINOR CORE (11 HOURS)

- PHY 2048* General Physics I
- PHY 2048L General Physics I Lab
- PHY 2049* General Physics II
- PHY 2049L General Physics II Lab
- PHY 3101 Modern Physics

*NOTE: PHY 2060 may substitute for PHY 2048 and PHY 2061 may substitute for PHY 2049.

MINOR ELECTIVES (6 HOURS)

Students must choose six (6) credit hours of upper-level physics electives from the following list, subject to approval by the undergraduate advisor:

- AST 3930 Astrophysics
- PHY 3220 Classical Mechanics
- PHY 3323 Electricity and Magnetism
- PHY 3822L Intermediate Lab
- PHY 4151 Computational Physics
- PHY 4324 Electricity and Magnetism II
- PHY 4424 Optics
- PHY 4523 Statistical Physics
- PHY 4604 Introduction to Quantum Mechanics
- PHY 4605 Quantum Mechanics II
- PHY 4744C Introduction to Electronics and Test Instrumentation
- PHY 4823L Advanced Lab
- PHY 4936 Selected Topics in Physics
- PHZ 3113 Mathematical Methods in Physics
- PHZ 4434 Material Physics

GPA REQUIREMENTS

A minimum 2.0 GPA average in the 17 credit hours is required for obtaining this minor.

GRADING REQUIREMENT

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

OTHER REQUIREMENTS

Students who require PHY 2048/L and PHY 2049/L for their core major requirements must meet with the Physics advisor prior to declaring the minor.
MINOR IN POLITICAL SCIENCE (POL)

TOTAL MINOR HOURS: 18

REQUIREMENTS FOR THE MINOR IN POLITICAL SCIENCE

A minor in political science requires the completion of a minimum of 18 credit hours.

MINOR CORE (6 HOURS)

Students must choose 6 credit hours from the following:

- CPO 2002 Introduction to Comparative Politics
- INR 2002 Introduction to International Relations
- POS 2041 American National Government
- POT 3003 Introduction to Political Theory

MINOR ELECTIVES (12 HOURS)

An additional 12 credit hours of courses included in the Political Science major are 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.

ADVISING INFORMATION

To contact your advisor and schedule an appointment, please go to:
http://hennarot.forest.usf.edu/main/depts/IGS/undergraduate/political-science/

MINOR IN PROFESSIONAL WRITING, RHETORIC AND TECHNOLOGY (PRT)

TOTAL MINOR HOURS: 15

REQUIREMENTS FOR THE MINOR IN PROFESSIONAL WRITING, RHETORIC AND TECHNOLOGY

MINOR CORE (15 HOURS)

- ENC 3242 Technical Communication for Majors
- One of the following:
  - ENC 4260 Advanced Technical Writing
  - ENC 4311 Advanced Composition
- Any three of the following:
  - ENC 3250 Professional Writing
  - ENC 3310 Expository Writing
ENC 3371 Rhetorical Theory for Technical Communication
- ENC 3416 New Media for Technical Communication
- ENC 3435 Rhetoric and Gaming
- ENC 4218 Visual Rhetoric for Technical Communication
- ENC 4931 Selected Topics in Professional and Technical Writing
- ENC 4931 Selected Topics in Professional and Technical Writing: Editing
- ENC 4931 Selected Topics in Professional and Technical Writing: Workplace Writing and Culture

- One upper-level course from the Literary Studies concentration

COURSE GRADE REQUIREMENT

A grade of below C- will not be counted toward fulfilling the major requirements.

MINOR IN PSYCHOLOGY (PSY)

TOTAL MINOR HOURS: 18

http://psychology.usf.edu/ug/minor/

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.

REQUIREMENTS FOR THE MINOR IN PSYCHOLOGY

A minor in Psychology consists of a minimum of 18 credit hours.

MINOR CORE (6 HOURS)

- PSY 2012 Introduction to Psychological Science
- Any Statistics course

MINOR ELECTIVES (12 HOURS)

12 credit hours of four upper-level psychology courses, except PSY 4913, DEP 3103, SOP 3742, and SYP 3000

GPA REQUIREMENTS

A GPA of 2.0 or better in the minor is required for certification.

COURSE GRADE REQUIREMENT

Students minoring in Psychology must obtain a “C” or better in any college level statistics course, and a “C-“ or better is required for all other courses that count toward the Psychology minor.

RESIDENCY REQUIREMENT

Students must complete at least eight credit hours toward the minor in residency at USF.

OTHER REQUIREMENTS

Permits are required for students to register for upper-level Psychology minor electives. Permits are available online at http://psychology.usf.edu/forms/CoursePermit/.

ADVISING INFORMATION

Department of Psychology Undergraduate Advising: psychad@usf.edu or http://psychology.usf.edu/ug/advising/.
MINOR IN PUBLIC ADMINISTRATION (PAN)

TOTAL MINOR HOURS: 15

http://spa.usf.edu/undergraduate/minor/

The Public Administration minor provides an introduction to public administration, public policy, state and local government. It is a smart choice for any student considering future employment in the public sector.

REQUIREMENTS FOR THE MINOR IN PUBLIC ADMINISTRATION

The minor in Public Administration consists of 15 credit hours.

MINOR CORE (9 HOURS)

- PAD 3003 Introduction to Public Administration
- PAD 4204 Public Financial Administration
- PAD 4415 Personnel & Supervision for Today’s Diverse Organizations

MINOR ELECTIVES (6 HOURS)

Select six (6) credit hours from the following list:

- PAD 4930 Selected Topics in Public Administration and Public Policy
- PUP 4002 Public Policy
- PAD 4144 Non-Profit Organizations and Public Policy
- PAD 4712 Managing Information Resources in the Public Sector
- URS 3002 Introduction to Urban Studies
- URP 4050 City Planning and Community Development
- URP 4052 Urban and Regional Planning

COURSE GRADE REQUIREMENT

Only courses in which a grade of “C-” or better is attained will count toward the minimum hours.

RESIDENCY REQUIREMENT

A minor in Public Administration consists of a minimum of 15 credit hours, at least 12 of which must be USF credits.

ADVISING INFORMATION

Please contact our advisers in the School of Public Affairs at: issadvise@usf.edu.

MINOR IN QUEER AND SEXUALITY STUDIES (QSS)

TOTAL MINOR HOURS: 18

http://wgs.usf.edu/undergrad/requirements/

The minor in Women's and Gender Studies is available to students pursuing any other major at USF.

REQUIREMENTS FOR THE MINOR IN QUEER AND SEXUALITY STUDIES

The minor in Queer and Sexuality Studies requires a minimum of 18 hours of interdisciplinary coursework.
MINOR CORE (6 HOURS)

Choose 6 hours from:

- WST 3602 Introduction to LGBTQ Cultures
- WST 3380 Sexualities Studies
- WST 4645/SYA 4121 Queer Theory

MINOR ELECTIVES (12 HOURS)

Must include a minimum of six (6) hours at the 4000-level or higher.

12 credit hours selected from:

- Any course in the Minor Core not counted toward the Core
- WST 2600 Human Sexual Behavior
- WST 3334 Queer Film & Television
- WST 4930 Selected Topics: Sex Work and Trafficking
- HIS 3930 Special Topics: Gay and Lesbian US History
- HIS 3930 Special Topics: History of AIDS
- HIS 3930 Special Topics: History of Gender and Sexuality
- HIS 3930 Special Topics: Sexuality in Latin America
- SYA 4930 Topics in Sociology: LGBT Youth in Education or WST 4930 Selected Topics: LGBT Youth in Education
- SYA 4121 Queer Theory
- AFA 4931 Selected Topics in Afro-Amer Studies: African Queer Studies
- EDF 4490 Studies in Research Design

COURSE GRADE REQUIREMENT

A grade of "C-" is required for a departmental course to count toward a Women's and Gender Studies minor.

GRADING REQUIREMENT

Courses may not be taken S/U, where a grade option exists.

ADVISING INFORMATION

The QSS advisor, Brandon Kroll, has an office in CPR 239, and can be reached at WGSadvise@usf.edu.

MINOR IN RELIGIOUS STUDIES (REL)

TOTAL MINOR HOURS: 18

http://religious-studies.usf.edu/ugrad/requirements/

REQUIREMENTS FOR THE MINOR IN RELIGIOUS STUDIES

Students choose a total of 18 credit hours from Religious Studies courses.
MINOR CORE (6 HOURS)

All minors must take:
- REL 3040 Introduction to Religious Studies
- REL 3043 Introduction to Major Religious Texts

MINOR ELECTIVES (12 HOURS)

An additional 12 credit hours chosen from Religious Studies courses are required.

GRADING REQUIREMENT

Only letter grades will be counted for coursework taken for the minor.

OTHER INFORMATION

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.

Transfer students may not apply more than 6 credit hours taken elsewhere toward the minor at USF. Requests for transfer of credit must be made to the Undergraduate Director in writing when declaring a minor.

ADVISING INFORMATION

Religious Studies Advising: RELAdvise@usf.edu

MINOR IN RUSSIAN STUDIES (RSS)

TOTAL MINOR HOURS: 15

http://languages.usf.edu/undergraduate/russian/

REQUIREMENTS FOR THE MINOR IN RUSSIAN STUDIES

MINOR CORE (8 HOURS)

- RUS 2220 Intermediate Russian I
- RUS 2221 Intermediate Russian II

MINOR ELECTIVES (7 HOURS)

Select seven (7) hours in 3000- or 4000-level courses:
- RUS 3240 Russian Language & Culture through Film
- RUS 3470 Overseas Study
- RUS 4241 Russian Language & Culture through Film II
- RUS 4900 Selected Topics
- RUS 4905 Directed Study
- RUT 3110 Nineteenth Century Russian Literature in English
- RUT 3111 Twentieth Century Russian Literature in English

Please contact a World Languages advisor to plan the appropriate coursework.
OTHER REQUIREMENTS

Prerequisites: RUS 1120 Beginning Russian I (4 credit hours) and RUS 1121 Beginning Russian II (4 credit hours). Students may be able to place out of prerequisites if they pass a proficiency test. Heritage students will be placed in languages courses according to their proficiency.

ADVISING INFORMATION

World Languages Academic Advisor, languagesadvise@usf.edu

MINOR IN SOCIOLOGY (SOC)

TOTAL MINOR HOURS: 18

http://sociology.usf.edu/ug/major/

Sociology is the study of human social relationships and institutions. Sociology’s subject matter is diverse, ranging from crime to religion, from the family to the state, from the divisions of race and social class to the shared beliefs of a common culture, and from social stability to radical change in whole societies.

REQUIREMENTS FOR THE MINOR IN SOCIOLOGY

MINOR CORE (6 HOURS)

Minors must take:

- SYG 2000 Introduction to Sociology
- SYA 3110 Classical Theory

MINOR ELECTIVES (12 HOURS)

Choose 12 credit hours from the following list:

- SYA 3310 Qualitative Inquiry
- SYA 4121 Queer Theory
- SYA 4930 Topics in Sociology
- SYD 3700 Racial and Ethnic Relations
- SYD 4238 Immigrants to America
- SYD 4410 Urban Sociology
- SYD 4411 Urban Life
- SYG 3235 Latina/Latino Lives
- SYO 3120 Sociology of Families
- SYO 3200 Sociology of Religion
- SYO 3460 Sociology of the Media
- SYO 4204 Religion and Immigration
- SYO 4536 Inequalities and Social Justice
- SYO 4573 Social Networks
- SYP 3562 Family Violence
- SYP 4012 Emotions in Society
- SYP 4111 Identify and Community
• SYP 4420 Consumer Culture
• SYP 4510 Sociological Aspects of Deviance
• SYP 4650 Sport in Society
• SYP 4675 Animals & Society
• SYP 4763 Sociology of Childhood and Youth

GRADING REQUIREMENT
Only courses in which a grade of "C-" or better is attained will count toward the minimum hours.

RESIDENCY REQUIREMENT
At least 12 credits must be USF Tampa credits.

OTHER INFORMATION
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.

ADVISING INFORMATION
While students minoring in Sociology are not required to see an advisor, it is strongly encouraged for students to make an appointment with the advisor, if he/she has questions about which Sociology courses might best contribute to their future career plans.

Shani Garza, Cooper Hall (CPR) 369, (813) 974-9249 or Brandon Kroll, Cooper Hall (CPR) 235, (813) 974-6983.

MINOR IN SPANISH (SPA)
TOTAL MINOR HOURS: 18

http://languages.usf.edu/undergraduate/spanish/degree/

REQUIREMENTS FOR THE MINOR IN SPANISH

MINOR CORE (6 HOURS)
• SPN 3300 Advanced Spanish Grammar and Composition*
• SPN 4301 Expository Writing

*SPN 3300 Advanced Spanish Grammar and Composition may be substituted for native speakers with SPN 2340 Advanced Spanish for Native Speakers I or SPN 2341 Advanced Spanish for Native Speakers II.

MINOR ELECTIVES (12 HOURS)
Select 12 hours in 3000-, 4000- or 5000-level SPN or SPW courses, may include one course (three credit hours) of Spanish/Spanish American Literature in translation. Two of these courses must be at the 4000-level. All electives must be approved by a department advisor prior to enrollment.

ADVISING INFORMATION
World Languages Academic Advisor: languagesadvise@usf.edu
MINOR IN URBAN STUDIES (UST)

TOTAL MINOR HOURS: 15

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 minor 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. 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. This highly interdisciplinary minor is a great complement to any degree program. Students who are interested in pursuing a Masters of Urban and Regional Planning are strongly encouraged to consider this field of study.

REQUIREMENTS FOR THE MINOR IN URBAN STUDIES

MINOR CORE (9 HOURS)

- PAD 3003 Introduction to Public Administration
- URP 4052 Urban and Regional Planning
- URS 3002 Introduction to Urban Studies

MINOR ELECTIVES (6 HOURS)

- AMH 3530 Immigration History
- ANT 4442 Urban Life and Culture
- ARC 4784 The City
- CCJ 3014 Crime and Justice in America
- PAD 4930 Selected Topics in Public Administration and Public Policy
- PUP 4002 Public Policy
- SOW 3210 The American Social Welfare System
- SYD 4410 Urban Sociology
- SYD 4411 Urban Life
- URP 4050 City Planning and Community Development
- URS 4930 Special Topics in Urban Studies

COURSE GRADE REQUIREMENT

Only courses in which a grade of "C-" or better is attained will count toward the minimum hours.

RESIDENCY REQUIREMENT

A minor in Urban Studies consists of a minimum of 15 credit hours, at least 12 of which must be USF credits.

OTHER INFORMATION

Please visit our webpage at [http://spa.usf.edu](http://spa.usf.edu).

ADVISING INFORMATION

For more information, please contact our advisers in the School of Public Affairs at [ISSadvise@usf.edu](mailto:ISSadvise@usf.edu).
MINOR IN WOMEN'S AND GENDER STUDIES (WGS)

TOTAL MINOR HOURS: 18

The minor in Women's and Gender Studies is available to students pursuing any other major at USF.

REQUIREMENTS FOR THE MINOR IN WOMEN'S AND GENDER STUDIES

MINOR CORE (6 HOURS)

- WST 3015 Introduction to Women’s Studies
- One other WST core course

MINOR ELECTIVES (12 HOURS)

Twelve (12) credit hours selected from among departmental offerings and must include a minimum of six (6) hours at the 4000-level or higher.

COURSE GRADE REQUIREMENT

A grade of "C-" is required for a departmental course to count toward a Women's and Gender Studies minor.

GRADING REQUIREMENT

Courses may not be taken S/U, where a grade option exists.

OTHER REQUIREMENTS

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.

ADVISING INFORMATION

The WGS advisor, Brandon Kroll, can be reached at WGSAdvise@usf.edu.

CERTIFICATE IN AFRICANA LITERATURES

TOTAL CERTIFICATE HOURS: 18

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.

REQUIREMENTS FOR THE CERTIFICATE IN AFRICANA LITERATURES

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.

CERTIFICATE CORE (12 HOURS)

- AFA 4430 Afro-Diasporic Literature and Political Movements
- AML 3604 African American Literature
- AML 4624 Black Women Writers
- ENG 4013 Literary Criticism
CERTIFICATE ELECTIVES (6 HOURS)

Select any two of the following courses:

- AFA 4931 Selected Topics in Africana Studies
  - Haiti: Legacy of Resilience and Freedom
- AML 4624 Black Women Writers
- WST 4410 Postcolonial Women Writers

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.

GPA REQUIREMENTS

A cumulative overall GPA of 3.0 must be maintained in all work for the Certificate.

GRADING REQUIREMENT

A grade of B (3.0) or better is required in core courses.

ADVISING INFORMATION

Pamela Anderson, Undergraduate Advisor, Social Sciences Building (SOC) 389

CERTIFICATE IN AGRICULTURAL SUSTAINABILITY AND FOOD BIOSECURITY

TOTAL CERTIFICATE HOURS: 24

http://biology.usf.edu/ib/ug/certificates/

The certificate is designed to enhance majors within the Integrative Biology Department, particularly majors in Environmental Biology. It addresses a national need for increased agricultural training opportunities outside Land Grant institutions. The certificate will enhance the student's academic growth, facilitate the student's use of academic training to address important societal problems, and improve the student's prospects of finding gainful employment.

REQUIREMENTS FOR THE CERTIFICATE IN AGRICULTURAL SUSTAINABILITY AND FOOD BIOSECURITY

CERTIFICATE CORE (24 HOURS)

- AMS 4804 Major Ideas in America: Ethics of Food Production or SWS 4207 Sustainable Agriculture and Urban Land Management (online course at University of Florida)
- ECO 1000 Basic Economics or ECO 2013 Economic Principles (Macroeconomics)
- BSC 4933 Selected Topics in Biology: Seminar in Environmental Risk Assessment
- BSC 4940 Biology Internship
- Two of the following courses:
  - BSC 4933 Selected Topics in Biology
  - GEO 3280 Environmental Hydrology
  - GEO 4265 Soil Genesis and Classification
  - GEO 4284 Water Resources Management
  - GIS 5049 GIS for Non-Majors
- Two of the following courses:
  - BOT 3015C General Botany
Courses required for the certificate cannot be used to satisfy more than six credits of major’s requirements.

**COURSE GRADE REQUIREMENT**

Only the internship may be taken S/U. Nine (9) credits of the certificate program must be completed before registering for BSC 4940 Biology Internship.

**OTHER REQUIREMENTS**

Students must declare their intention to be awarded the certificate by notifying a Biology undergraduate advisor at least one full semester prior to graduation, if applicable.

If a student chooses to take one of the approved University of Florida courses listed above, it is the student’s responsibility to provide USF with an official transcript showing the approved course with a final grade.

For those students using financial aid, please be aware of USF’s cross enrollment/transient student policy, as stated in the undergraduate catalog.

**CERTIFICATE IN ARABIC LANGUAGE AND CULTURE**

**TOTAL CERTIFICATE HOURS: 17**

This certificate is constructed for individuals who are pursuing a bachelor’s degree in any field and are interested in developing their knowledge and understanding of the Arabic language and Middle Eastern culture. This certificate will prepare students for working in global business companies, the U.S. Department of State and other governmental or diplomatic positions, research centers, etc. in the future. It is offered through the Department of World Language Education.

**REQUIREMENTS FOR THE CERTIFICATE IN ARABIC LANGUAGE AND CULTURE**

Students must complete the following two courses before applying for the certificate program:

- ARA 1120 Modern Arabic I
- ARA 1121 Modern Arabic II

**CERTIFICATE CORE (11 HOURS)**

- ARA 2220 Modern Arabic III
- ARA 2221 Modern Arabic IV
- FOL 4102 General Foreign Language II

**CERTIFICATE ELECTIVES (6 HOURS)**

Student choose two courses from the following list of electives:

- ASN 3030 The Middle East
- CPO 4034 Politics of the Developing Areas
- INR 3011 Globalization
INR 3038 International Wealth and Power
INR 4083 Conflict in the World

GPA REQUIREMENTS
A minimum 3.0 GPA is required.

COURSE GRADE REQUIREMENT
A minimum grade of a C (2.0) or higher must be attained in each course.

RESIDENCY REQUIREMENT
A minimum of nine (9) hours must be completed at USF. In the case of study abroad programs, exceptions can be made.

CERTIFICATE IN ASIAN STUDIES
TOTAL CERTIFICATE HOURS: 18

http://hennarot.forest.usf.edu/main/depts/IGS/undergraduate/certificates/

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

CERTIFICATE CORE (18 HOURS)

Group A (at least two courses)
- Art:
  - ARH 4530 Asian Art
  - ARH 4557 Chinese Art
- Humanities:
  - HUM 2271 Eastern and Western Culture from Antiquity to 1400
  - HUM 2273 Eastern and Western Culture Since 1400
- Languages:
  - CHI 1120 Modern Chinese I
  - CHI 1121 Modern Chinese II
  - CHI 2220 Modern Chinese III
  - CHI 4905 Directed Study
  - CHI 4930 Special Topics
  - JPN 1120 Modern Japanese I
  - JPN 1121 Modern Japanese II
  - JPN 2220 Modern Japanese III
  - JPN 2221 Modern Japanese IV
  - JPN 4905 Directed Study
  - JPN 4930 Selected Topics
- Religion:
  - REL 3318 Introduction to Chinese Religion
REL 3330 Religions of South Asia
REL 3335 Gods and Goddesses of India
REL 3340 Buddhism Truths and Paths
REL 4333 Hindu Texts and Contexts

Group B (at least two courses)

- *Geography:*
  - GEA 3703 Geography of Asia

- *History:*
  - ASH 2270 Southeast Asian History
  - ASH 3404 Modern China
  - HIS 2931* Special Topics

- *International Studies:*
  - ASN 3012 Japan Today
  - ASN 3014 China Today
  - INR 4900* Directed Readings
  - INR 4910* Directed Research
  - INR 4931* Selected Topics

- *Political Science:*
  - CPO 4930* Comparative Government and Politics of Select Areas
  - CPO 5934 Selected Topics in Comparative Politics
  - INR 5086 Issues in International Relations

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

1. 18 semester hours from the courses listed.
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.

GPA REQUIREMENTS

Students who fail to achieve a cumulative 2.50 GPA or higher in the program will be denied the certificate.

RESIDENCY REQUIREMENT

A minimum of 12 credits must be taken at USF.

ADVISING INFORMATION

The advisor for the Certificate in Asian Studies is Pamela Anderson; she may be contacted at pkander2@usf.edu.
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 credits) that provides students with a broad introduction to the field of film studies. Receipt of a Certificate in Film Studies is recorded on the student's transcript. Spanning colleges, departments, and academic disciplines, the Certificate in Film Studies provides students with a balanced and multi-faceted course of study that will focus on the functions and manifestations of film as a medium in contemporary 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 civilizations.

**REQUIREMENTS FOR THE CERTIFICATE IN FILM STUDIES**

**CERTIFICATE CORE (3 HOURS)**

- FIL 1002 Introduction to Film Studies

**CERTIFICATE ELECTIVES (9 HOURS)**

**Group I (Area Studies):**
Students will take 3 credit hours of elective courses chosen from the following list:

- FRE 4392 African Images in Francophone Film
- GET 3522 Fantastic Films of Early German Cinema
- GET 3524 German Popular Film
- GET 4523 New German Cinema to Present
- HUM 4930 Selected Topics in Humanities*
- ITT 3504 Italian Culture through Film
- INR 4931 Selected Topics*
- LAS 3116 Latin America through Film

*Please see academic advisor for appropriate General Foreign Language and Special/Selected Topics courses.

**Group II (Film Medium & History):**
Students will take 3 credit hours of elective courses chosen from the following list:

- ENG 3113 Film as Narrative Art
- FIL 2000 Film and Culture
- FIL 3427C Beginning Film
- HUM 4581 Film and Media Theory
- THE 2252 Great Performances on Film

**Group III (Socio-Political & Historical Perspectives):**
Students will take 3 credit hours of elective courses chosen from the following list:

- AMS 3615 Film and American Society
- ARH 4744 Selected Topics in the History of Film
- HUM 4582 Film Auteurs
- LAH 2733 Latin American History in Film
REL 3111 The Religious Quest in Contemporary Films
REL 3170 Religion, Ethics and Society through Film
SYG 3011 Social Problems through Film
WST 4335 Women and Film

The student and the Coordinator will plan the individual course of study, which requires 12 credit hours. Students must declare their intention to be awarded the certificate by notifying the Coordinator at least one full semester prior to graduation.

GPA REQUIREMENTS
A cumulative GPA of 2.50 in the certificate course work is required.

GRADING REQUIREMENT
Courses must be taken on a letter-grade basis.

OTHER INFORMATION
Course of study must be approved by the Coordinator. Ideally, students should take at least one course from each group. Courses not included in the above groups may be included in the program if approved by the Coordinator.

ADVISING INFORMATION
To receive an application and for more information contact Dr. Margit Grieb, Coordinator of the Certificate in Film Studies, at grieber@usf.edu.

CERTIFICATE IN FOOD STUDIES
TOTAL CERTIFICATE HOURS: 15
http://humanities.usf.edu/undergraduate/food/

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 relationships between humans and their food, especially focusing on the sociocultural relevance of food and food systems. Food Studies is a growing field that offers students the opportunity to be interdisciplinary in their methodological approach, while studying a subject that is of tremendous social, personal, ethical, environmental and global significance.

REQUIREMENTS FOR THE CERTIFICATE IN FOOD STUDIES
CERTIFICATE CORE (3 HOURS)
- HUM 3309 Introduction to Food Studies

CERTIFICATE ELECTIVES (12 HOURS)
An additional 12 credit hours of coursework must be selected from the categories of Culture & History and System & Environments.

Group I – Culture & History (6 hours):
Courses in this category examine the cultural, historical, psychological, ethical, and ideological factors involved in domestic and/or international patterns and practices of food production and consumption. Courses may address historical shifts (industrialization, for instance), cultural rituals, race and ethnicity, gender, socioeconomic class, labor and social justice movements, food security, media analysis, aesthetics, and art.

Students must successfully complete two courses from the following list (or another suitable course chosen with the direction and approval of the certificate director and/or certificate advisor):
- AMS 4804 Major Ideas in America*
- AMH 3341 American Food and Drink History
COLLEGE OF ARTS & SCIENCES

UNIVERSITY OF SOUTH FLORIDA 2019-20 UNDERGRADUATE CATALOG

- ANT 4185 Ancient Diets
- ANT 4467 Food, Health, and Culture
- ANT 4465 Anthropology of Food
- HUM 4930 Selected Topics in Humanities*
- HUM 4940 Internship in Humanities
- ITT 4531 Italian Food in Film
- REL 4108 Religion and Food
- SYD 4512 Sustainable Consumption
- SYP 4420 Consumer Culture

*Variable topics courses must be approved by the certificate director and the certificate advisor.

Group II – Systems & Environments (6 hours):

Courses in this category examine the biological, ecological, geographic, economic, and political factors involved in domestic and/or international patterns and practices of food production and consumption. Courses may address commodity chains, regulatory systems and policy, food safety, principles and practices of sustainable agriculture, applied urban farming, resource consumption, biodiversity, and migration patterns.

Students must successfully complete two courses from the following list (or another suitable course chosen with the direction and approval of the certificate director and/or certificate advisor):

- ANT 4403 Environmental Anthropology
- BSC 1005 Biological Principles for Non Majors
- EVR 4033 Environmental Regulation
- GEO 4265 Soil Genesis and Classification
- HSC 4573 Foundations of Food Safety
- HUN 3126 Food and Culture
- HUN 3296 Nutrition and Disease
- MCB 4223 Food Microbiology
- PHC 3320 Environmental Health Science

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.

GPA REQUIREMENTS

A cumulative GPA of 2.5 in the certificate coursework is required.

GRADING REQUIREMENT

Courses must be taken on a letter-grade basis.

OTHER REQUIREMENTS

HUM 3309 is an approved Global Citizens Project (GCP) course and can be used toward the 6 credit hours needed to qualify for the Global Citizens Award.
CERTIFICATE IN INDIA STUDIES

TOTAL CERTIFICATE HOURS: 15

The certificate in India Studies is designed for majors in any field who wish to gain a broad knowledge of Indian culture and society.

REQUIREMENTS FOR THE CERTIFICATE IN INDIA STUDIES

CERTIFICATE CORE (3 HOURS)

- GEA 3194 Regional Geography – India

CERTIFICATE ELECTIVES (12 HOURS)

Four electives (12 credit hours) must be taken--two each from Group A and two each from Group B.

Group A: History, Geography, Society, Politics (6 credit hours):

Courses that may be applied as electives to the India Studies Certificate are as follows:

- GEO 4930 Selected Topics
- INR 4931 Selected Topics

Group B: Language, Culture, Philosophy, and Religion (6 credit hours):

Courses that may be applied as electives to the India Studies Certificate are as follows:

- REL 2300 Introduction to World Religions
- REL 3043 Introduction to Major Religious Texts
- REL 3308 World Religions
- REL 3330 Religions of South Asia
- REL 3335 Gods and Goddesses of India
- REL 4333 Hindu Texts and Contexts
- HUM 3930 Special Topics in Humanities

Group C: Study Abroad (6 credit hours) (Optional):

Students with Study Abroad experience in India may substitute one course each from Group A and Group B for six credit 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.

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.

GPA REQUIREMENTS

Students must maintain a minimum cumulative 3.00 GPA.

GRADING REQUIREMENT

Students must maintain a minimum 3.00 GPA in courses applied to the India Studies certificate.
CERTIFICATE IN ITALIAN STUDIES

TOTAL CERTIFICATE HOURS: 23-28

http://italianstudies.cas.usf.edu/Italian_Studies_Program.pdf

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 prehistoric 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.

REQUIREMENTS FOR THE CERTIFICATE IN ITALIAN STUDIES

Students are required to take between 23 and 28 credit 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.

CERTIFICATE CORE (9 HOURS)

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.

CERTIFICATE ELECTIVES (6-8 HOURS)

Students will take 6-8 credits of elective courses related to Italy. Course topics may vary. The following lists some of the possible courses:

- Anthropology:
  - ANT 4143 European Archaeology
  - ANT 4930 Special Topics in Anthropology*

- Art History:
  - ARH 4318 Venetian Art [instructor’s consent]

- English:
  - LIT 4930 Special Topics in English Studies*

- Government and International Affairs:
  - POT 4936 Selected Topics in Political Theory*

- History:
  - EUH 3412 Roman Republic
  - EUH 3413 Roman Empire
• HIS 3930 Special Topics*

World Languages:
  • CLA 3124 Daily Life in Ancient Rome
  • CLT 3123 Voyages and Metamorphoses in Roman Imagination
  • ITA 1120 Beginning Italian I
  • ITA 1121 Beginning Italian II
  • ITA 2200 Italian III
  • 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 Drama - Special Topics

*Please see an academic advisor for appropriate Special/Selected Topics courses.

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.

Students may apply a maximum of sixteen (16) credits in the same department toward fulfilling the requirements for the certificate.

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

ADVISING INFORMATION

For additional information, send a message to Dr. Giovanna Benadusi or Dr. Fraser Ottanelli, Coordinators of the Certificate in Italian Studies at itastudies@cas.usf.edu.
CERTIFICATE IN JAPANESE

TOTAL CERTIFICATE HOURS: 15-17

The certificate is constructed for individuals who are pursuing a bachelor’s degree in any field as well as non-degree seeking students and desire to advance their Japanese learning. By developing individuals’ knowledge and understanding for the Japanese language and culture, this certificate will prepare them for working in Japan or for Japanese companies, working as a foreign service officer in the U.S. Department of State, or applying for the Japanese Exchange and Teaching (JET) program, etc. in the future. The certificate is offered through the Department of World Languages.

REQUIREMENTS FOR THE CERTIFICATE IN JAPANESE

Students must complete the following two courses or their equivalents before applying to the certificate program.

- JPN 1120 Modern Japanese I
- JPN 1121 Modern Japanese II

CERTIFICATE CORE (11 HOURS)

- JPN 2220 Modern Japanese III
- JPN 2221 Modern Japanese IV
- JPN 3400 Japanese V

CERTIFICATE ELECTIVES (4-6 HOURS)

Students choose two (2) courses from the following list of electives:

- JPN 4020 Japanese Calligraphy
- JPT 4957 Japan Study Program: Culture, History and Society
- JPN 3401 Japanese VI

GPA REQUIREMENTS

A minimum 2.0 GPA is required.

COURSE GRADE REQUIREMENT

A minimum grade of C (2.0) or higher must be attained in each course.

RESIDENCY REQUIREMENT

A minimum of 9 credit hours must be completed at the University of South Florida. In case of study abroad programs, exceptions can be made.

OTHER REQUIREMENTS

Relevant courses not listed as requirements or electives and offered in other departments may be substituted with the approval of the coordinator.
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.

REQUIREMENTS FOR THE CERTIFICATE IN LATIN AMERICAN AND CARIBBEAN STUDIES

The certificate requires a minimum of 15 semester hours of courses about Latin America and the Caribbean.

CERTIFICATE CORE (3 HOURS)

- Core Seminar LAS 3002 Latin America (3 credit hours)

CERTIFICATE ELECTIVES (12 HOURS)

Students should choose four courses (12 credit hours) from the following list of courses:

1. Anthropology
   - ANT 4165 South American Archaeology
   - ANT 4316 Ethnic Diversity in the United States
   - ANT 4323 Mexico and Central America
   - ANT 4340 The Caribbean
   - ANT 4472 Work and Migration in the Americas

2. Geography/Government & International Affairs
   - CPO 4034 Politics of the Developing Areas
   - CPO 4930 Comparative Government and Politics of Select Areas (when selected area is Latin America)*
   - GEA 3405 Geography of Latin America

3. History
   - LAH 2733 Latin American History in Film
   - LAH 3430 History of Mexico
   - LAH 3470 History of the Caribbean
   - LAH 3480 History of Cuba
   - LAH 3743 Spanish America in the Age of Revolution
   - LAS 4023 African Diaspora in Latin America and the Caribbean
   - LAS 4934 Selected Topics: Latin American Studies
   - LAS 4940 Internship in Latin America and the Caribbean

4. Art/Humanities/Literature
   - AML 3630 U.S. Latino/Latina Literature in English
   - HUM 2466 Modern Latin American Cultures
   - HUM 3463 Latin American Civilization I: Pre-Columbian & Colonial
   - HUM 4462 Pre-Columbian and Colonial Latin American Culture
5. Others
  o AFA 4500 Slavery in the Americas and the Caribbean
  o REL 3375 Issues in Caribbean Religions
    o SOW 4522 Multicultural America in a Global Society
    o SSE 4380 Global and Multicultural Perspectives in Education
    o SYD 4238 Immigrants to America
    o SYG 3235 Latina/Latino Lives
    o SYO 4204 Religion and Immigration
    o WST 4262 Literature by Women of Color in the Diaspora

Study abroad programs are encouraged and will be credited toward the Certificate. Up to 6 study abroad credits earned in residence in Latin America and/or the Caribbean will count for the certificate.

FOREIGN LANGUAGE REQUIREMENT

Two semesters of course work in a relevant language such as: Spanish, Portuguese, French, or an Amerindian language such Quechua, Haitian Creole, etc.

OTHER INFORMATION

The program is open to all majors in all colleges.

Course offerings can be checked at: http://islac.usf.edu/course/.

ADVISING INFORMATION

For information and advice about the certificate program, contact the Institute for the Study of Latin America and The Caribbean (ISLAC), CPR 478, call 974-3772, or send an email to plezama@usf.edu.

CERTIFICATE IN MODERN WESTERN EUROPEAN STUDIES

TOTAL CERTIFICATE HOURS: 21-24

http://www.usf.edu/arts-sciences/students/undergraduate/certificate-programs.aspx

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.
REQUIREMENTS FOR THE CERTIFICATE IN MODERN WESTERN EUROPEAN STUDIES

CERTIFICATE CORE (15-16 HOURS)

Students will take a total of three courses from the following; one of them must be either EUS 3000 or GEA 3500. Students will take two additional semesters of the foreign language they have taken in fulfillment of the College of Arts and Sciences language requirement.

- Core Courses (9-10 credit hours)
  - EUS 3000 Europe
  - GEA 3500 Geography of Europe
  - EUH 3205 History of Nineteenth Century Europe or EUH 3206 History of Twentieth Century Europe
  - HUM 2250 Studies in Culture: The Twentieth Century
  - LIT 3144 Modern European Novel
  - PHM 4331 Modern Political Philosophy

- Language Requirement (6 credit hours)

CERTIFICATE ELECTIVES (6-8 HOURS)

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:

*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.

(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.)

- Overseas Experience
  - as IDS 4955 (Off-Campus Term International Program),
  - as one or two of the courses listed below as Elective Courses, or
  - as part of overseas study courses offered by other USF colleges and other universities.

- 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 Since the Renaissance
• **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 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

• **Humanities and Cultural Studies**
  - HUM 4905 Directed Study
  - HUM 4941 Study on Location

• **Government and International Affairs**
  - CPO 4930 Comparative Government and Politics of Select Areas
  - 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

• **World Languages**
  - **FRENCH**
    - FRE 3234 Reading in French Literature and Culture
    - FRE 3440 French for Business
    - FRE 3500 French Civilization
    - FRW 4100 The French Novel
    - FRW 4101 Introduction to French Drama and Poetry
    - FRE 4905 Directed Study
    - FRE 4930 Selected Topics
  - **GERMAN**
    - GER 3500 The Germans - Past and Present
    - GET 3103 German Literature in English Translation
    - GET 3522 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 and International Trade I
- SPN 3441 Spanish for Business and International Trade II
- SPN 3500 Spanish Civilization
- SPW 3030 Introduction to Hispanic Literacy Studies
- SPW 4100 Survey of Spanish Literature I
- SPW 4101 Survey of Spanish Literature II
- SPW 4900 Directed Study
- SPW 4930 Selected Topics

Philosophy
- PHH 3420 Early Modern Philosophy
- PHH 4440 Continental Philosophy
- PHM 4331 Modern Political Philosophy
- PHP 3786 Existentialism
- PHP 4410 Kant

Students must declare their intention to be awarded the certificate by notifying the Coordinator at least one full semester prior to graduation.

GPA REQUIREMENTS
A cumulative GPA of 2.5 in the certificate course work is required.

RESEARCH OPPORTUNITIES
Students may avail themselves of Research Opportunities through Undergraduate Research and/or WLE’s annual Research Colloquium where they may present their research. Students will want to contact professors in the areas they may wish to do research.

ADVISING INFORMATION
Dr. Christine M. Probes
Department of World Languages
LanguagesAdvise@usf.edu
The Certificate Program in National 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.

REQUIREMENTS FOR THE CERTIFICATE IN NATIONAL INTELLIGENCE

CERTIFICATE CORE (26 HOURS)

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.

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 Foundation to Professional Writing in Public Health
- LIS 4029 Professional & Technical Comm. for Analysts

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 Government and Politics of Select Areas

Analytical Skills and Critical Thinking Courses: (6 credit hour minimum):
Certificate holders must satisfactorily complete courses in their majors/minors that promote analytical skills and critical thinking. The Program Director, in consultation with the Dean of the College or Department of a requesting student, can include proposed courses (such as independent study) to fulfill this requirement; course approval will be made on a case-by-case basis. The Analytical Skills and Critical Thinking requirement should be met by taking the appropriate courses for your major.

- AMS 4935 Senior Seminar in American Studies
- CEG 4850 Capstone Geotechnical/Transportation Design
- CES 4704 Capstone Structural/Materials Design
- CIS 4250 Ethical Issues and Professional Conduct
- CWR 4812 Capstone Water Resources/Environmental Design
COLLEGE OF ARTS & SCIENCES

- ECH 4615 Product and Process Design
- EEL 4914 EE Design 2
- EIN 4891 Industrial Engineering Senior Design Project II
- EML 4551 Capstone Design
- GEB 4890 Strategic Management and Decision Making
- HIS 4936 Pro-Seminar in History
- HSC 4631 Critical Issues in Public Health
- MHS 4731 Writing for Research and Publication in Behavioral and Community Sciences
- MAN 4631 Global Perspectives and Management Choices

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.

The requirements for the undergraduate certificate are:

- 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.
- Satisfactory completion of at least one professional writing course
- Satisfactory completion of at least one international relations course
- Satisfactory completion of at least two courses in college/major departments that promote analytic skills and critical thinking
- Satisfactory completion of a 4-day summer seminar organized by the Program Director
- Only degree-seeking undergraduate students may apply for this certificate.

GRADING REQUIREMENT
Satisfactory completion of all coursework for the certificate with a grade of C (2.0) or better, C- is not sufficient.

RESIDENCY REQUIREMENT
18 hours of coursework for the minor must be completed at USF Tampa.

CERTIFICATE IN RUSSIAN STUDIES

TOTAL CERTIFICATE HOURS: 14

http://history.usf.edu/ug/russian/

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, the School of Interdisciplinary Global Studies, and the Department of History. Courses from other departments may count if their subject matter has significant Russian or Eurasian content.
REQUIREMENTS FOR THE CERTIFICATE IN RUSSIAN STUDIES

14 credit hours and a 3.0 GPA in certificate coursework.

CERTIFICATE CORE (14 HOURS)

I. Language, Linguistics and Literature (8 hours)
   - RUS 1120 Elementary Russian I
   - RUS 1121 Elementary Russian II
   - RUS 2220 Intermediate Russian I
   - RUS 2221 Intermediate Russian II
   - RUS 4905 Directed Study
   - RUS 4900 Selected Topics: Russian Analytical Reading
   - RUS 3240 Russian Language & Culture through Film I
   - RUS 4241 Russian Language & Culture through Film II
   - RUS 2270 Overseas Study
   - RUS 3470 Overseas Study

II. History, Politics and Culture (6 hours)
   Courses may include, for example:
   - EUH 3575 History of Imperial Russia, 1689-1917
   - EUH 3576 History of Soviet Union, 1917-1991
   - EUH 3676 Early Christians, Pagans, and Heretics
   - EUS 3022 Russia
   - HIS 4936 Proseminar in History: Global History of Communism
   - HIS 4936 Proseminar in History:The Soviet Union in WWII
   - RUT 3110 Nineteenth Century Russian Literature in English
   - RUT 3111 20th Century Russian Lit in English
   - RUS 3500 Russian Civilization
   - RUS 4900 Selected Topics: Russia Through Film

This is not an exhaustive list. Other courses with significant Russian-related content may be substituted for those listed above upon approval of the Russian Studies Coordinator.

Students must declare their intention to be awarded the certificate by notifying the coordinator at least one full semester prior to graduation.

Language

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. It is very important that students begin developing their language skills as early as possible. It is recommended that students take as many years of language study as possible.

GPA REQUIREMENTS

Maintain a GPA of 3.0 in certificate coursework.
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About the College

Established in 2008, the College of Behavioral & Community Sciences is breaking new ground by combining knowledge gained through the behavioral sciences with knowledge gained from the community. Our emphasis on Behavioral Science reflects a focus on individuals, emphasizing behavioral research that examines the problems and challenges people encounter, as well as their need for clinical and supportive services. Our emphasis on Community Science reflects our commitment to understanding the larger contextual factors that have an impact on the well-being and safety of individuals and their families, such as the effectiveness of systems and policies that impact and support the well-being of individuals. We accomplish this by engaging community and neighborhood stakeholders in a partnered, participatory manner and by collaborating with local, state, and national organizations in both the public and private sectors.

The College of Behavioral & Community Sciences serves approximately 3,000 students with eight (8) undergraduate, eleven (11) master's, and seven (7) doctoral programs housed in six (6) academic departments/schools. The College is the home of the Louis de la Parte Florida Mental Health Institute, one of the largest behavioral health research and training institutes in the country as well as 17 specialized Research Centers and Institutes. Our aim is nothing less than to be among the most influential resources for behavioral and community sciences in the region, nation, and world.

Mission, Vision, Values

Mission

To advance knowledge through interdisciplinary teaching, research, and service that improves the capacity of individuals, families, and diverse communities to promote productive, satisfying, healthy, and safe lives across the lifespan.

Vision

College of Behavioral and Community Sciences envisions the college as a globally recognized leader that creates innovative solutions to the complex conditions that affect the behavior and well-being of individuals, families, and diverse communities.

Values

Inclusion and diversity in all its dimensions are core values that permeate the teaching, research, and service activities of College of Behavioral and Community Sciences. As members of the higher education community, College of Behavioral and Community Sciences values shared governance, academic freedom, and professional responsibility.
Principles That Guide Our Work

In implementing our work, College of Behavioral and Community Sciences strives to incorporate interdisciplinary approaches to teaching, research, and service; engagement with community partners; and student participation in research, service, and global initiatives.

College-Level Requirements

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.

Other Information - Departmental Minor

Students may not use courses in the major for the minor, unless approved by the department offering the minor.

Graduation Requirements

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 the State Communication Requirement (formerly known as Gordon Rule Writing) and State Computation Requirement (formerly known as Gordon Rule Math). 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 State Core courses and Enhanced General Education Curriculum (for more information, see section titled "Enhanced General Education" in Academic Policies and Procedures section).
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 State Communication Requirement (formerly known as Gordon Rule Writing) and State Computation Requirement (formerly known as Gordon Rule Math) may not be taken S/U.
11. The Audit option is available only during the first 5 (five) days of classes.
12. Complete Civics Literacy requirement.
13. Complete a minimum of 42 hours of upper-level courses (numbered 3000 or above).
14. 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.
Baccalaureate-Level Degree Programs

Global Pathways
https://www.usf.edu/gcp/students/index.aspx

A Global Pathway is an undergraduate major or degree program that has significant global content. Global Pathways provide students with the opportunity to practice and apply global competencies through the major or degree program. The following programs are designated as Global Pathway Programs:

Communication Sciences & Disorders
https://www.usf.edu/cbcs/csd/

Social Work
https://www.usf.edu/cbcs/social-work/

Bachelor of Arts

Communication Sciences & Disorders
https://www.usf.edu/cbcs/csd/undergrad/index.aspx

The Department of Communication Sciences & Disorders (CSD) offers the Bachelor of Arts Degree in the Speech-Language-Hearing Science (LSH) concentration, Interpreter Training Track (ITT) concentration, and Deaf Studies (DST) concentration. The Bachelor of Arts degree concentrations require approximately two years of concentrated upper level study. Courses in this major are sequenced with specific prerequisites for advanced course placement.

Criminology
https://www.usf.edu/cbcs/criminology/undergraduate/majors.aspx

The major in Criminology provides students with an in-depth exposure to all facets of the criminal justice system including law enforcement, detention, the judiciary, corrections, and probation and parole. The program concentrates on achieving balance in the above aspects of the system from the perspective of the criminal justice professional, the offender, and society. The program provides a solid background in the theory, issues and methodology comprising Criminology.

Undergraduate Honors Program
https://www.usf.edu/cbcs/criminology/undergraduate/honorsprogram.aspx

Students in the Criminology Honors Program will have the opportunity to make their first contribution to the study of criminology and at the same time gain valuable research, critical thinking, and writing skills. Successful completion of the program will depend upon the student's ability to absorb the additional workload and produce a thesis with minimal individual guidance.

Bachelor of Science

Aging Sciences
https://www.usf.edu/cbcs/aging-studies/academics/bs/ba.aspx

As the older adult population in the U.S. increases, understanding of the aging process is important for all students. The BS in Aging Sciences focuses on the study of the process of human aging in all its many aspects: physical, psychological and social. Our educational programs emphasize the linkage between research, practice and policy, with the goal of applying the best research knowledge to the "Real World" to provide evidence-based practice and policy for older adults.

Behavioral Healthcare
https://www.usf.edu/cbcs/mhlp/students/behavioral-healthcare-major.aspx

Behavioral health problems, including mental illness and substance abuse, are among the greatest public health challenges facing our communities. New, scientific based treatment approaches are available to treat and prevent many of these behavioral health issues. The Behavioral Healthcare major will expose students to these treatment approaches as well as to issues in the organization, finances, and outcome of behavioral health services.
Long Term Care Administration
https://www.usf.edu/cbcs/aging-studies/academics/bs/bs.aspx

The Bachelor of Science Degree in Long-Term Care Administration is a specialist degree which, in addition to providing students with a basic education in aging, is intended to prepare them for entry-level positions in Nursing Home Administration. This degree requires 39 hours of course work, plus prerequisites. This course of study is especially appropriate for students who intend to begin working immediately following completion of the degree program.

B.S.W. in Social Work
https://www.usf.edu/cbcs/social-work/admissions/bswadmissions.aspx

The BSW program is limited access. Even if all requirements are met, there are no guaranteed admissions. To be admitted to the USF College of Behavioral and Community Sciences and School of Social Work at the junior level, a student should follow a pre-social work program leading to the Associate of Arts degree at a Florida public community college, and:

- Admission to the University and a minimum USF/Overall GPA of 2.75.
- Completion of 15 semester hours of common program prerequisites with a minimum "C" grade in each course.
- Complete an application in the semester in which he/she is enrolled in foundation courses. (Consideration in the admissions process includes GPA, letters of reference, essay and volunteer/paid work related to Social Work).
- Achieve the minimum GPA required in the foundation courses noted on the webpage.

Minors

Aging Sciences
https://www.usf.edu/cbcs/aging-studies/academics/bs/bs.aspx

An undergraduate minor in Aging Sciences is available for students interested in pursuing careers in conjunction with any undergraduate major. Requirements for the minor in Aging Sciences are a total of 15 hours.

Applied Behavior Analysis
http://www.usf.edu/cbcs/cfs/academics/aba/aba-minor/

The ABA 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.

Behavioral Healthcare
http://www.usf.edu/cbcs/mhlp/students/behavioral-healthcare-minor.aspx

Behavioral health problems, including mental illness and substance abuse, are among the greatest public health challenges facing our communities. New, scientifically based treatment approaches are available to treat and prevent many of these behavioral health issues. Students will be exposed to these 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 those empirically validated methods of service delivery within the context of current funding, policies, and trends. Behavioral Healthcare is offered as an Undergraduate Minor by the USF Louis de la Parte Florida Mental Health Institute in the College of Behavioral and Community Sciences, as a Concentration in the Bachelor of Science in Applied Science degree program, a Concentration in the Bachelor of General Studies and as a Cognate in the Interdisciplinary Social Sciences Bachelor's program.

Criminology
http://www.usf.edu/cbcs/criminology/undergraduate/minor.aspx

The Department of Criminology offers a minor in Criminology. A total of 18 hours is required for completion of the minor. A minimum of nine semester hours must be completed at USF Tampa Campus. A minimum of 12 semester hours must be completed at USF.
Deaf Studies

Forensic Behavioral Healthcare
http://ugs.usf.edu/catalog/?catyr=1617&category=minors&display=detail&min=FBH&code=1b86fe1c7e5db615b848ac4913604f1

The minor in Forensic Behavioral Health is available to students interested in pursuing the interaction of mental health and substance use disorders with the criminal justice system. It should be particularly beneficial for students in disciplines such as criminology, psychology, social work, sociology, anthropology, public health, and pre-law.

Concentrations
A concentration is any organized set of courses that is offered as part of a major and enhances or complements the degree program to be awarded in a manner that leads to specific educational or occupational goals, and/or from different disciplines that provide an interdisciplinary focus.

BEHAVIORAL HEALTHCARE
- Addictions and Behavioral Healthcare
- Adult Community Services
- Aging and Behavioral Health
- Applied Behavior Analysis
- Behavioral Health Research
- Children's Mental Health

COMMUNICATION SCIENCES AND DISORDERS
- Deaf Studies
- Interpreter Training
- Language-Speech-Hearing

Certificates
The Undergraduate Research Certificate provides students with a planned sequence of courses to support their systematic development as undergraduate researchers and prepare them for graduate school. The Undergraduate Research Certificate is a cross-departmental initiative within the College of Behavioral & Community Sciences. See https://www.usf.edu/cbcs/undergraduate/certificates.aspx for more information.

The following courses are required for completion of the certificate. Many of these courses will also count toward completion of a general education requirements or a student's major.
- Addictions and Substance Abuse Profession
- Undergraduate Research in Behavioral & Community Sciences

Undergraduate Advising Information
Please visit the College of Behavioral and Community Sciences website for advisor information at https://www.usf.edu/cbcs/undergraduate/advising.aspx.

Current Undergraduate Students: Please use eScheduler at http://usfweb.usf.edu/escheduler/student.aspx (requires login).

Interested prospective students or Non USF students who do not have a USF ID number can schedule appointments using the NonStudent eScheduler at http://usfweb.usf.edu/eScheduler/NonStudentlogin.aspx.
The Bachelor of Science degree in Aging Sciences entails 36 credit hours of required coursework. In this program, the course of study provides students with an education in aging sciences 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 aging, allied health or a related field, or who plan to work with older adults in careers such as care management, social services, or program development.

STATE MANDATED COMMON COURSE PREREQUISITES

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 General Education 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.

Transfer students are also required to comply with the immunization, foreign language, and continuous enrollment policies of the university.

Students should complete the following prerequisite courses 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 in prerequisite courses.

- STA X122 Social Science Statistics or QMB X150 or QMB X100 or STA X014 or STA 040 or STA X023 or STA X024

REQUIREMENTS FOR THE MAJOR IN AGING SCIENCES

TOTAL MAJOR HOURS: 36

MAJOR REQUIREMENTS FOR THE B.S. DEGREE:

MAJOR CORE (21 HOURS)

- GEY 2000 Introduction to Aging Sciences
- GEY 3601 Physical Changes and Aging
- GEY 4401 Research Methods in Aging
- GEY 4612 Psychology of Aging
- GEY 4628 Health, Ethnicity, and Aging
- GEY 4641 Death and Dying
- Required Capstone Course* - Students will choose one:
  - GEY 4945 Internship or
  - GEY 4690 Senior Seminar in Aging or
  - GEY 4917 Directed Research in Aging

*These courses are School capstone experience courses and do not qualify to meet the General Education requirement.
MAJOR ELECTIVES (15 HOURS)

B.S. students complete 15 additional elective hours. Students should meet frequently with the departmental advisor to plan courses and field work that will prepare them for their career goals.

- DEP 2004 The Life Cycle
- GEY 3503 Administration of Assisted Living Facilities
- GEY 3625 Sociological Aspects of Aging
- GEY 4101 Aging in Special Populations
- GEY 4102 Aging in Modern Literature and Film
- GEY 4104 Healthy Global Aging
- GEY 4231 Elder Abuse and Neglect
- GEY 4322 Care Management for Older Adults
- GEY 4360 Counseling for Older Adults
- GEY 4475 Program Evaluation in an Aging Society
- GEY 4507 Understanding Policies and Practices of Long Term Care
- GEY 4520 Legal Aspects of Health Care Administration
- GEY 4608 Alzheimer’s Disease Management
- GEY 4629 Women in Aging
- GEY 4632 Economics of Aging
- GEY 4635 Business Management in an Aging Society
- GEY 4647 Ethical and Legal Issues of Aging
- GEY 4900 Directed Readings in Aging

GRADING REQUIREMENT

A grade of lower than "C-" in Aging Sciences courses will not be counted toward fulfilling the requirements for the major.

OTHER REQUIREMENTS

Concentration in Aging Sciences/Gerontology are available in the following majors:

- Bachelor of Science in Applied Science: Aging Sciences, offered through Undergraduate Studies
- Bachelor of General Studies: Aging Sciences, offered through Undergraduate Studies
- Bachelor of Arts in Interdisciplinary Social Sciences: Aging Sciences, offered through the College of Arts and Sciences
- Bachelor of Science in Behavioral Healthcare: Aging and Behavioral Health, offered through the College of Behavioral and Community Sciences
- Bachelor of Science in Health Sciences: Aging Health Sciences, offered through the College of Arts and Sciences
RESEARCH OPPORTUNITIES

All undergraduate students in any degree program can participate in undergraduate research. There are a number of options to receive academic credit for a mentored research experience and to have the experience show on the official transcript. Students who wish to enroll in an undergraduate research course should consult with their academic advisor to understand how the credit will apply towards the degree requirements. If no credit is needed, students may be eligible to enroll in the 0-credit IDS 2912, IDS 4914 or IDH 4910 courses. These courses will not impact degree credits or GPA but will show on an official transcript and document the experience. The Office of Undergraduate Research will assist students in understanding the various course options.

INTERNSHIP OPPORTUNITIES

Students who have completed a major portion (usually in the final 2 semesters of the program) of the Aging Sciences program of study may opt to apply for an internship to fulfill a capstone requirement leading to graduation. Internships are selective and awarded to students who demonstrate considerable professional readiness and have developed well-defined professional goals that will be enriched and advanced through an internship. Internships are typically worth 3 credit hours.

ADVISING INFORMATION

Contact the undergraduate advisor as early as possible in your career at the University of South Florida. Students should plan to meet frequently with the advisor to plan courses and field work that will prepare the student for career goals.

Undergraduate Advisor: Jessica Wall; jwall5@usf.edu.

AGING SCIENCES FACULTY


B.S. - BEHAVIORAL HEALTHCARE (BHC)

(CIP = 44.0000) 
TOTAL DEGREE HOURS: 120

http://www.usf.edu/cbcs/mhlp/students/behavioral-healthcare-major.aspx

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. 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.

STATE MANDATED COMMON COURSE PREREQUISITES

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 General Education 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.
Transfer students are also required to comply with the immunization, foreign language, and continuous enrollment policies of the university.

Students should complete the following prerequisite courses 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 in prerequisite courses.

- PSY X012 Introduction to Psychological Science
- STA XXXX Any level Statistics course or PSY X204 Psychological Statistics
- SYG X000 Introduction to Sociology or SYG X010 Contemporary Social Problems

**REQUIREMENTS FOR THE MAJOR IN BEHAVIORAL HEALTHCARE**

**TOTAL MAJOR HOURS: 37**

**MAJOR REQUIREMENTS FOR THE B.S. DEGREE:**

**MAJOR CORE (19 HOURS)**

The B.S. in Behavioral Healthcare prepares students for entry-level positions in agencies that provide a variety of treatment services for individuals with diagnosed mental health, substance use and/or behavioral issues. Other students may be preparing for graduate programs in human services and/or research. The program provides students with six options for specialization in (1) Adult Community Services, (2) Children’s Mental Health, (3) Applied Behavior Analysis, (4) Addictions and Behavioral Healthcare, (5) Aging and Behavioral Health, and (6) Behavioral Health Research. The curriculum emphasizes evidence-based practices utilizing a recovery-focused, holistic and strength-based approach to behavioral healthcare.

- MHS 3411 Multidisciplinary Behavioral Healthcare Services*
- MHS 4002 Behavioral Health Systems Delivery
- MHS 4408 Exemplary Practices in Behavioral Healthcare Treatment
- MHS 4452 Co-Occurring Disorders
- MHS 4703 Legal, Ethical and Professional Issues in BHC
- PSY 3213 Research Methods in Psychology

*MHS 3411 should be taken during the student’s first semester of major coursework; a minimum grade of "B-" is required.

**GPA REQUIREMENTS**

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.

**COURSE GRADE REQUIREMENT**

MHS 3411 requires a minimum grade of "B-" prior to proceeding with other courses in the Behavioral Healthcare program.
COLLEGE OF BEHAVIORAL & COMMUNITY SCIENCES

GRADING REQUIREMENT

A grade of lower than "C-" in any Behavioral Healthcare major course will not be counted toward fulfilling the requirements for the major.

“D” Rule

Behavioral Healthcare majors are limited to two (2) grades of “D+” or lower in their major coursework. Any student who receives a grade of D+ or lower in more than two (2) major courses will be required to seek major reselection. Note: Students may use grade forgiveness to improve GPA, but all “D+” or lower grades will count toward the maximum allowed total “D+” grades, regardless of whether grade forgiveness has been applied.

RESIDENCY REQUIREMENT

At least 18 hours of major coursework must be taken in residence at USF Tampa.

RESEARCH OPPORTUNITIES

All undergraduate students in any degree program can participate in undergraduate research. There are a number of options to receive academic credit for a mentored research experience and to have the experience show on the official transcript. Students who wish to enroll in an undergraduate research course should consult with their academic advisor to understand how the credit will apply towards the degree requirements. If no credit is needed, students may be eligible to enroll in the 0-credit IDS 2912, IDS 4914 or IDH 4910 courses. These courses will not impact degree credits or GPA but will show on an official transcript and document the experience. The Office of Undergraduate Research will assist students in understanding the various course options.

OTHER INFORMATION

A concentration in Behavioral Healthcare is offered through the Bachelor of Science in Applied Science (BSAS) degree program for Florida A.S. transfers as well as the Bachelor of General Studies (BGS) for returning students. Both majors are offered through Undergraduate Studies.

A concentration in Multidisciplinary Behavioral Sciences is available through the Interdisciplinary Social Sciences (ISS) major, which is offered by the College of Arts & Sciences.

ADVISING INFORMATION

For questions related to advising please contact BHC Advising at bhc_advise@usf.edu.

BEHAVIORAL HEALTHCARE FACULTY


APPLIED BEHAVIOR ANALYSIS (ABA) CONCENTRATION

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.
REQUIREMENTS FOR THE CONCENTRATION IN APPLIED BEHAVIOR ANALYSIS

TOTAL CONCENTRATION HOURS: 37

CONCENTRATION CORE (18 HOURS)

- MHS 3204 Fundamentals of Applied Behavior Analysis or CLP 4414 Behavior Modification
- MHS 4202 Behavior Assessment and Intervention Planning
- MHS 4206 Applied Behavior Analysis in Autism and Developmental Disabilities
- MHS 4412 Research Methods and Ethical Issues in Behavior Analysis
- MHS 4490 Behavioral Healthcare Issues for Children
- MHS 4943 Practicum Seminar in Applied Behavior Analysis

ADULT COMMUNITY SERVICES (ACS) CONCENTRATION

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.

REQUIREMENTS FOR THE CONCENTRATION IN ADULT COMMUNITY SERVICES

TOTAL CONCENTRATION HOURS: 37

CONCENTRATION CORE (15 HOURS)

- MHS 3204 Fundamentals of Applied Behavior Analysis or CLP 4414 Behavior Modification
- MHS 4022 Adult Psychopathology in the Community
- MHS 4023 Recovery-Oriented Mental Health Services
- MHS 4425 Field Experience in Behavioral Healthcare
- MHS 4723 Professional Seminar in Behavioral Healthcare

Students must apply to take MHS 4425 Field Experience in Behavioral Healthcare two semesters before taking the course. This course has four prerequisites: MHS 3411 with a B- or higher, MHS 4002, MHS 4723, and MHS 4408. MHS 4723 and MHS 4408 may be taken as a prerequisite or a co-requisite course. The application, deadlines, and additional information about the course can be found on the Field Experience webpage: http://www.usf.edu/cbcs/mhlp/students/field-experience.aspx.

Concentration Electives (3 hours)

MHS 3XXX or 4XXX Behavioral Healthcare Elective (consult with an academic advisor) options include:

- MHS 3062 Behavioral Healthcare Services for Older Adults
- MHS 4434 Behavioral Health and the Family
- MHS 4453 Applied Psychopharmacology in Drug Abuse and Dependency
- MHS 4454 Alcohol Drugs and Crime
AGING AND BEHAVIORAL HEALTH (AGBH) CONCENTRATION

The concentration is designed to provide students with the skills and background to work in the growing older adult behavioral/long-term healthcare system.

REQUIREMENTS FOR THE CONCENTRATION IN AGING AND BEHAVIORAL HEALTH

TOTAL CONCENTRATION HOURS: 37

CONCENTRATION CORE (18 HOURS)

- GEY 4322 Care Management for Older Adults or GEY 4608 Alzheimer's Disease Management
- GEY 4360 Counseling for Older Adults
- GEY 4612 Psychology of Aging
- MHS 3062 Behavioral Healthcare Services for Older Adults
- MHS 4425 Field Experience in Behavioral Healthcare
- MHS 4723 Professional Seminar in Behavioral Healthcare

Students must apply to take MHS 4425 Field Experience in Behavioral Healthcare two semesters before taking the course. This course has four prerequisites: MHS 3411 with a B- or higher, MHS 4002, MHS 4723, and MHS 4408. MHS 4723 and MHS 4408 may be taken as a prerequisite or a corequisite course. The application, deadlines, and additional information about the course can be found on the Field Experience webpage: http://www.usf.edu/cbcs/mhlp/students/field-experience.aspx.

ADDITIONS AND BEHAVIORAL HEALTHCARE (BAH) CONCENTRATION

REQUIREMENTS FOR THE CONCENTRATION IN ADDICTIONS AND BEHAVIORAL HEALTHCARE

TOTAL CONCENTRATION HOURS: 37

CONCENTRATION CORE (18 HOURS)

- MHS 4022 Adult Psychopathology in the Community
- MHS 4425 Field Experience in Behavioral Healthcare
- MHS 4453 Applied Psychopharmacology in Drug Abuse and Dependency
- MHS 4454 Alcohol Drugs and Crime
- MHS 4455 Drug Abuse Prevention and Treatment
- MHS 4723 Professional Seminar in Behavioral Healthcare
Students must apply to take MHS 4425 Field Experience in Behavioral Healthcare two semesters before taking the course. This course has four prerequisites: MHS 3411 with a B- or higher, MHS 4723, and MHS 4408. MHS 4723, and MHS 4408 may be taken as a prerequisite or a co-requisite course. The application, deadlines, and additional information about the course can be found on the Field Experience webpage: http://www.usf.edu/cbcs/mhlp/students/field-experience.aspx.

**BEHAVIORAL HEALTH RESEARCH (BHR) CONCENTRATION**

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.

**REQUIREMENTS FOR THE CONCENTRATION IN BEHAVIORAL HEALTH RESEARCH**

**TOTAL CONCENTRATION HOURS: 37**

**CONCENTRATION CORE (18 HOURS)**

- IDS 1505 Introduction to Research in Beh. & Com. Sciences
- IDS 2600 Applications of Research in Community Settings
- MHS 4413 Applied Data Analysis for Behavioral Health Research
- MHS 4731 Writing for Research and Publication in Behavioral and Community Sciences
- MHS 4741 Applied Research Methods
- MHS 4912 Independent Research in Behavioral Health
- One course from the following list of courses:
  - GEY 4360 Counseling for Older Adults
  - MHS 4022 Adult Psychopathology in the Community
  - MHS 4490 Behavioral Healthcare Issues for Children

**CHILDREN'S MENTAL HEALTH (CML) CONCENTRATION**

**REQUIREMENTS FOR THE CONCENTRATION IN CHILDREN'S MENTAL HEALTH**

**TOTAL CONCENTRATION HOURS: 37**

**CONCENTRATION CORE (18 HOURS)**

Not-for-profit agencies in the community provide services that address a wide spectrum of children's issues ranging from prevention to inpatient or residential care. This concentration is designed for students considering a career in children's mental health.

- MHS 3204 Fundamentals of Applied Behavior Analysis or CLP 4414 Behavior Modification
- MHS 4074 Child Development and Trauma
- MHS 4723 Professional Seminar in Behavioral Healthcare
- MHS 4425 Field Experience in Behavioral Healthcare
- MHS 4434 Behavioral Health and the Family
- MHS 4490 Behavioral Healthcare Issues for Children
Students must apply to take MHS 4425 Field Experience in Behavioral Healthcare two semesters before taking the course. This course has four prerequisites: MHS 3411 with a B- or higher, MHS 4002, MHS 4723, and MHS 4408. MHS 4408 may be taken as a prerequisite or a co-requisite course. The application, application deadlines, and additional information about the course can be found on the Field Experience webpage: http://www.usf.edu/cbcs/mhlp/students/field-experience.aspx.

B.A. - COMMUNICATION SCIENCES AND DISORDERS (CSD)
(CIP = 51.0204)
TOTAL DEGREE HOURS: 120
http://www.usf.edu/cbcs/csd/undergrad/index.aspx

Certified Global Pathways Program

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 for entry into the clinical Doctor of Audiology degree.
2. Interpreter Training (ITT): The ITT concentration prepares individuals to work in settings that require an interpreter to facilitate communication between Deaf and hearing individuals.
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 d/Deaf and hard of hearing individuals utilizing various communication methods, both manual and oral.

This program has been certified as a Global Pathway. Global Pathway programs have significant global content and align with the goals of USF’s Quality Enhancement Plan, the Global Citizens Project. Students in Global Pathway programs are well positioned to earn the Global Citizen Award and become eligible to apply for a study abroad scholarship offered by the Global Citizens Project.

STATE MANDATED COMMON COURSE PREREQUISITES

Students are strongly encouraged to select required lower division electives that will enhance their general education coursework and that will support their intended baccalaureate degree program. Students should consult with an academic advisor in their major degree area.

REQUIREMENTS FOR THE MAJOR IN COMMUNICATION SCIENCES AND DISORDERS

MAJOR REQUIREMENTS FOR THE B.A. DEGREE:

GRADING REQUIREMENT

A student must receive a "C-" grade or better in all courses within the major (some prerequisites may require higher minimum grades). Any student who receives a grade of "D+" or lower in two or more USF Communication Sciences and Disorders courses will be required to either change concentrations within CSD or pursue major reselection. If a student changes concentrations within the CSD major, pursuant to receiving two or more "D+" or lower grades, and earns and additional "D+" or lower grade in any major course, the student will be required to pursue major reselection. In other words, any student with three "D+" or lower grades in USF Communication Sciences and Disorders courses will be required to pursue major reselection. Note: Students may use grade forgiveness to improve GPA, but all "D+" or lower grades will count towards the maximum allowed total "D+" or lower grades in the major whether grade forgiven or not.
FOREIGN LANGUAGE REQUIREMENT

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.

RESEARCH OPPORTUNITIES

All undergraduate students in any degree program can participate in undergraduate research. There are a number of options to receive academic credit for a mentored research experience and to have the experience show on the official transcript. Students who wish to enroll in an undergraduate research course should consult with their academic advisor to understand how the credit will apply towards the degree requirements. If no credit is needed, students may be eligible to enroll in the 0-credit IDS 2912, IDS 4914 or IDH 4910 courses. These courses will not impact degree credits or GPA but will show on an official transcript and document the experience. The Office of Undergraduate Research will assist students in understanding the various course options.

OPTIONAL HONORS PROGRAM

The department is not currently accepting applications for the 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:

a) Completion of 18 credit hours within the Communication Sciences and Disorders curriculum with at least a 3.50 GPA in these courses.

b) 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:

a) 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.

b) 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 a 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.

COMMUNICATION SCIENCES AND DISORDERS FACULTY

DEAF STUDIES (DST) CONCENTRATION
(CIP = 51.0204)
http://www.usf.edu/cbcs/csd/undergrad/dst.aspx

The Deaf Studies (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 number of settings (e.g., social services, vocational rehabilitation, education, etc.) with a variety of deaf and hard of hearing individuals utilizing diverse communication methods, both manual and oral. Coursework is designed to provide students with an opportunity to learn the language, education, history, and culture of deaf individuals in the United States as well as issues that impact the provision of services to this population. Includes all the required coursework of the American Sign Language special endorsement of the Florida Department of Education, which will allow students to become certified to teach American Sign Language within the Florida public school system.

STATE MANDATED COMMON COURSE PREREQUISITES
Students entering the university with fewer than 60 semester hours of acceptable credit must meet the University's entering freshman requirements including ACT and SAT test scores, GPA, and course requirements. Students intending to transfer to USF should complete an A.A. degree at the community college. Some courses required for the major may also meet the USF General Education Requirements. Transfer students must comply with the immunization, foreign language, and continuous enrollment policies of the University.

There are no State Mandated Common Prerequisites for the Deaf Studies concentration.

REQUIREMENTS FOR THE CONCENTRATION IN DEAF STUDIES

TOTAL CONCENTRATION HOURS: 42

CONCENTRATION CORE (42 HOURS)

DST Concentration Prerequisite courses (minimum grade of B- in each course) (8 hours)

- ASL 2140C Basic American Sign Language
- ASL 2150C Intermediate Sign Language

Minimum grade of C- and overall 2.0 GPA in core) (42 hours)

- ASL 3514 Deaf Culture
- ASL 4161C Advanced American Sign Language
- ASL 4201C American Sign Language 4
- ASL 4202 American Sign Language 5
- ASL 4301C Structure of Sign Language
- ASL 3324 Advanced ASL Discourse
- ASL 4515 Leadership, Advocacy, and Issues in Deaf Studies
- ASL 4602 Methods of Teaching ASL
- ASL 4700 ASL Literature
- INT 4942 Internship in Deaf Studies
LIN 4721 Second Language Acquisition
SPA 3002 Introduction to Communication Sciences and Disorders
SPA 3470 Culture and Diversity in CSD
SPA 4632 Nature and Needs of Deaf and Hard of Hearing

ADVISING INFORMATION

For questions related to advising please contact our advisor at csdittdst@usf.edu.

INTERPRETER TRAINING (ITT) CONCENTRATION
(CIP = 51.0204)

http://www.usf.edu/cbcs/csd/undergrad/itt.aspx

The ITT concentration seeks to educate students to become American Sign Language interpreters. The ITT program includes instruction in both the theory and practice of sign language interpretation. A program of 49 credit hours is planned for the student majoring in the Interpreter Training concentration.

Students entering the ITT concentration must demonstrate proficiency in ASL at an advanced level prior to beginning the first semester of core courses in the major. Proficiency is demonstrated through successful completion of the ASL prerequisites courses listed below (or equivalent transfer courses) with a minimum grade of B- or higher in each course. All incoming students will be will be classified as pre-CSD until they have completed the state mandated prerequisites for their desired concentration with a B- or better. All students must register to become a CSD major the semester prior to being qualified (i.e., the semester in which they are finishing their last state mandated prerequisite courses). Note: DST does not have any mandated prerequisites, so those students will be converted to CSD majors upon entry.

STATE MANDATED COMMON COURSE PREREQUISITES

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 General Education 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.

Transfer students are also required to comply with the immunization, foreign language, and continuous enrollment policies of the university.

Students should complete the following prerequisite courses 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 B- is the minimum acceptable grade in prerequisite courses.

- ASL X140 Basic American Sign Language
- ASL X150 Intermediate American Sign Language
- ASL X160 American Sign Language III or ASL X161 Advanced American Sign Language
- ASL X200 American Sign Language IV or ASL X201 American Sign Language IV
- ASL X300 Structure of American Sign Language or ASL X301 Structure of Sign Language
REQUIREMENTS FOR THE CONCENTRATION IN INTERPRETER TRAINING

TOTAL CONCENTRATION HOURS: 49

CONCENTRATION CORE (49 HOURS)

ITT Prerequisites (minimum grade B- in each course) (17 credit hours):
- ASL 2140C Basic American Sign Language
- ASL 2150C Intermediate American Sign Language
- ASL 4161C Advanced American Sign Language
- ASL 4201C American Sign Language 4
- ASL 4301C Structure of Sign Language

Core Courses (49 credit hours) (minimum grade C- and overall 2.0 GPA in Core):
- ASL 3324 Advanced ASL Discourse
- ASL 3514 Deaf Culture
- INT 3004 Fundamentals of Interpreting
- INT 3111 Language and Cognitive Skills in ASL
- INT 3112 Translation from English and from ASL
- INT 3205 Interpreting I
- INT 3270 Interpreting Process and Skill Development
- INT 3481 Specialized Terminology
- INT 4190 Senior Seminar in Interpreter Training
- INT 4206 Interpreting II
- INT 4208 Interpreting III
- INT 4211 Transliterating
- INT 4235 Advanced Receptive Voicing
- INT 4947 Interpreting Practicum II
- SPA 3002 Introduction to Communication Sciences and Disorders
- SPA 3470 Culture and Diversity in CSD
- SPA 4962 Undergraduate Comprehensive Exam

Concentration Electives

Graduation within the ITT major also requires successful completion of a comprehensive practical exit examination (SPA 4962) and successful completion of the Registry of Interpreters for the Deaf (RID) written NIC examination.

OTHER REQUIREMENTS

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.
OTHER INFORMATION

All incoming students will be classified as pre-CSD until they have completed the state mandated pre-requisites for their desired concentration with a B- or better. All students must register to become a CSD major the semester prior to being qualified (i.e., the semester in which they are finishing their last state mandated pre-requisite courses). Note: DST does not have any mandated pre-requisites, so those students will be converted to CSD majors upon entry.

ADVISING INFORMATION

For questions related to advising please contact our advisor at csditddst@usf.edu.

LANGUAGE-SPEECH-HEARING (LSH) CONCENTRATION

(CIP = 51.0204)

http://www.usf.edu/cbcs/csd/undergrad/lsh.aspx

All incoming students in LSH will be classified as pre-LSH until they have completed the state mandated prerequisites with a C- or better. All students must register to become a CSD-LSH major the semester prior to being qualified (i.e., the semester in which they are finishing their last state mandated prerequisite courses).

STATE MANDATED COMMON COURSE PREREQUISITES

Students entering the university with fewer than 60 semester hours of acceptable credit must meet the University's entering freshman requirements including ACT and SAT test scores, GPA, and course requirements. Students intending to transfer to USF should complete an A.A. degree at the community college. Some courses required for the major may also meet the USF General Education Requirements. Transfer students must comply with the immunization, foreign language, and continuous enrollment policies of the University.

The State of Florida has identified common course prerequisites for the concentration in Language-Speech-Hearing. All state mandated prerequisite courses must be completed with a grade of C- or better prior to the first semester in which courses are taken in the major. (Note that national certification in Speech-Language Pathology or Audiology through the Council of Academic Accreditation of the American-Speech-Language-Hearing Association requires that sufficient competency be demonstrated in coursework in the Social/Behavioral, Biological and Physical Sciences, and Mathematics.) If the courses are not transferred in, the course(s) may be taken at USF but may delay taking major coursework in prescribed sequence.

Students must complete one course (3 credit hours) from each of the following areas:

- STA XXXX Statistics
- BSC XXXX or APK XXXX or ANT X511 Biological Science
- PHY XXXX or CHM XXXX or PSC XXXX Physical Science
- PSY XXXX or EXP XXXX or CLP XXXX or DEP XXXX or SYG XXXX or SYD XXXX or SYO XXXX or SYP XXXX or FYC XXXX or FAD XXXX Social/Behavioral Sciences
REQUIREMENTS FOR THE CONCENTRATION IN LANGUAGE-SPEECH-HEARING

TOTAL CONCENTRATION HOURS: 48

CONCENTRATION CORE (48 HOURS)

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.

- ASL 3514 Deaf Culture
- SPA 3002 Introduction to Communication Sciences and Disorders
- SPA 3004 Introduction to Language Development and Disorders
- SPA 3011 Introduction to Speech Science
- SPA 3030 Introduction to Hearing Science
- SPA 3101 Anatomy and Physiology of the Speech and Hearing Mechanism
- SPA 3112 Applied Phonetics in Communication Disorders
- SPA 3261 Language Science for Comm. Sciences & Disorders
- SPA 3310 Introduction to Disorders of Hearing
- SPA 3470 Culture and Diversity in CSD
- SPA 4050 Introduction to the Clinical Process
- SPA 4104 Neuroanatomy for Speech, Language and Hearing
- SPA 4250 Introduction to Speech Disorders
- SPA 4257 Adult Communication Disorders
- SPA 4321 Introduction to Audiologic Rehabilitation
- SPA 4901 Research Methods in Communication Sciences and Disorders

FOREIGN LANGUAGE REQUIREMENT

Two semesters of college-level, foreign language course (in the same language) is required to meet the degree requirements. Two semesters of American Sign Language are accepted to meet this requirement, but a student may take any foreign language to meet the requirement.

OTHER INFORMATION

Effective July 1989, the academic requirements for employment in the public school system for Speech-Language Pathologists is a Master's degree.

Students in the LSH concentration are encouraged to join the USF chapter of the National Student Speech-Language-Hearing Association. This group is affiliated with the American Speech-Language-Hearing Association (ASHA) and has many membership benefits.

ADVISING INFORMATION

For questions related to advising please contact our advisor at bcs-csdlshadvising@usf.edu.
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, the victim, 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.

STATE MANDATED COMMON COURSE PREREQUISITES

Students desiring to transfer to USF should complete an A.A. degree at a Florida College System institution. If students transfer with fewer than 60 semester hours of acceptable credit, the students must meet the University's entering freshman requirements including ACT or SAT test scores, GPA, and course requirements. Transfer students are also required to comply with the immunization, foreign language, and continuous enrollment policies of the university.

There are no State Mandated Common Prerequisites for this program. All Florida College System students are encouraged to complete the Associate degree. Students should consult with an academic advisor in their major degree area at the intended transfer institution.

REQUIREMENTS FOR THE MAJOR IN CRIMINOLOGY

TOTAL MAJOR HOURS: 36

MAJOR REQUIREMENTS FOR THE B.A. DEGREE:

MAJOR CORE (12 HOURS)

- CCJ 3024 Survey of the Criminal Justice System
- CCJ 3117 Theories of Criminal Behavior
  - Note: A grade of C (not C-) or higher is required in CCJ 3117 to enroll in CCJ 3701.
- CCJ 3701 Research Methods in Criminal Justice I
  - Note: A grade of C (not C-) or higher is required in CCJ 3701 to enroll in CCJ 4934.
- CCJ 4934 Seminar in Criminology

Students must complete CCJ 3117 with a grade of C or better (not C-) prior to enrollment in CCJ 3701. Students must complete CCJ 3701 with a grade of C or better (not C-) prior to enrollment in CCJ 4934.

NOTE: No more than six (6) hours of CCJ 4900, CCJ 4910 or any combination of the two will be accepted toward the minimum number of hours in the major. A student may take an unlimited number of CCJ 4933 courses as long as the courses vary in title.
MAJOR ELECTIVES (24 HOURS)

Students should select 24 credit hours from the following list of courses:

- CCJ 3014 Crime and Justice in America
- CCJ 3621 Patterns of Criminal Behavior
- CCJ 3666 Victimology
- CCJ 4224 Miscarriages of Justice
- CCJ 4361 Death Penalty
- CCJ 4613 Forensic Psychology
- CCJ 4662 Race and Crime
- CCJ 4681 Domestic Violence
- CCJ 4690 Sex Offenders
- CCJ 4933 Selected Topics in Criminology
- CCJ 4940 Internship (See advisor)
- CJC 4010 American Correctional System
- CJE 4010 Juvenile Justice System
- CJE 4114 American Law Enforcement Systems
- CJE 4610 Criminal Investigation
- CJL 3110 Substantive Criminal Law
- CJL 4115 Environmental Law & Crime
- CJL 4410 Criminal Rights and Procedures

GPA REQUIREMENTS

2.00 or higher Major GPA

GRADING REQUIREMENT

"D" Rule

Criminology majors are limited to one grade of "D+" or lower in their major coursework. Any student who receives a grade of "D+" or lower in more than one USF Criminology major course will either need to utilize grade forgiveness in order to comply with the rule or seek major reselection. Future registration in Criminology major courses will be restricted for students who are not in compliance with the "D" rule. If a student has exhausted all available grade forgiveness opportunities and remains in non-compliance with the "D" rule, the student will be required to seek major reselection.

RESIDENCY REQUIREMENT

Residency Requirement: A minimum of 30 credit hours of major course work must be taken in residence at the University of South Florida. Therefore, no more than 6 credit hours of transfer work (two courses) will be accepted to meet major requirements.
FOREIGN LANGUAGE REQUIREMENT

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.

RESEARCH OPPORTUNITIES

All undergraduate students in any degree program can participate in undergraduate research. There are a number of options to receive academic credit for a mentored research experience and to have the experience show on the official transcript. Students who wish to enroll in an undergraduate research course should consult with their academic advisor to understand how the credit will apply towards the degree requirements. If no credit is needed, students may be eligible to enroll in the 0-credit IDS 2912, IDS 4914 or IDH 4910 courses. These courses will not impact degree credits or GPA but will show on an official transcript and document the experience. The Office of Undergraduate Research will assist students in understanding the various course options.

INTERNSHIP OPPORTUNITIES

The department provides all students with the opportunity to engage in an internship with a federal, state or local criminal justice related agency within one of the surrounding counties. Internships available with more than 100 agencies afford students the opportunity to network and gain practical experience in conjunction with their degree. Internships maybe taken for up to nine (9) credit hours of Criminology electives, and grades are awarded on a S/U (satisfactory/unsatisfactory) basis. To meet eligibility requirements for the internship, students must successfully complete CCJ 3024, CCJ 3117, six (6) hours of Criminology electives, and have a USF and a major GPA of 2.0 or higher.

ADVISING INFORMATION

Criminology Academic Advising: ccjadvice@usf.edu.

CRIMINOLOGY FACULTY


B.S. - LONG TERM CARE ADMINISTRATION (LTC)

(CIP = 51.0701)  TOTAL DEGREE HOURS: 120

http://www.usf.edu/cbcs/aging-studies/academics/bs/bs.aspx

The Bachelor of Science Degree in Long Term Care Administration provides students with a basic education in gerontology and 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.
STATE MANDATED COMMON COURSE PREREQUISITES

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 General Education 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.

Transfer students are also required to comply with the immunization, foreign language, and continuous enrollment policies of the university.

Students should complete the following prerequisite courses 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 in prerequisite courses.

- 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 X023 Economic Principles (Microeconomics)
- CGS X100 Computers in Business or CGS X061 or ISM X000
- STA X023 Introductory Statistics

REQUIREMENTS FOR THE MAJOR IN LONG TERM CARE ADMINISTRATION

TOTAL MAJOR HOURS: 39

MAJOR REQUIREMENTS FOR THE B.S. DEGREE:

MAJOR CORE (39 HOURS)

It is strongly recommended that students complete GEY 2000 and MAN 3025 prior to registering for core major courses.

- GEY 3601 Physical Changes and Aging
- GEY 4475 Program Evaluation in an Aging Society
- GEY 4507 Understanding Policies and Practices of Long Term Care
- GEY 4508 Health Care Operations
- GEY 4509 Regulatory and Clinical Operations
- GEY 4520 Legal Aspects of Health Care Administration
- GEY 4608 Alzheimer's Disease Management
- GEY 4641 Death and Dying
- GEY 4945 Internship
- ISM 3011 Information Systems in Organizations
- MAN 3301 Human Resource Management
MAJOR ELECTIVES

The following electives are not required for the major but are strongly recommended:

- BUL 3320 Law and Business I
- GEY 3503 Administration of Assisted Living Facility
- GEY 3625 Sociological Aspects of Aging
- GEY 4360 Counseling for Older Adults
- GEY 4628 Health, Ethnicity and Aging
- MAN 3240 Organizational Behavior Analysis
- MAR 3023 Basic Marketing

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 three (3) credits concurrent with the B.S. internship. NOTE: a Level 2 background check is required for most Internships, possibly at the student's expense.

Students interested in either Aging Sciences or Long Term Care Administration majors should contact the School of Aging Studies [http://www.usf.edu/cbcs/aging-studies/advising/index.aspx](http://www.usf.edu/cbcs/aging-studies/advising/index.aspx) as early as possible in their careers at the University of South Florida.

GRADING REQUIREMENT

A grade of lower than "C-" in Aging Sciences and Business courses will not be counted toward fulfilling the requirements for the major.

OTHER REQUIREMENTS

Strongly Recommended Courses:

- GEY 2000 Introduction to Aging Sciences
- MAN 3025 Principles of Management

RESEARCH OPPORTUNITIES

All undergraduate students in any degree program can participate in undergraduate research. There are a number of options to receive academic credit for a mentored research experience and to have the experience show on the official transcript. Students who wish to enroll in an undergraduate research course should consult with their academic advisor to understand how the credit will apply towards the degree requirements. If no credit is needed, students may be eligible to enroll in the 0-credit IDS 2912, IDS 4914 or IDH 4910 courses. These courses will not impact degree credits or GPA but will show on an official transcript and document the experience. The Office of Undergraduate Research will assist students in understanding the various course options.

INTERNSHIP OPPORTUNITIES

A full-time (650 hours) internship is required for students completing the Bachelor of Science Degree in Long Term Care Administration. The internship, scheduled during the last semester of the program after successful completion of all major prerequisites and all but one of the required courses, is intended to prepare students for entry-level positions in nursing home administration. Students should expect to meet with the advisor the semester prior to the internship in preparation of their field experience.

ADVISING INFORMATION

Students are strongly encouraged to meet each semester with the departmental advisor to plan courses and field work that will prepare the student for career goals.

Undergraduate Advisor: Jessica Wall: jwall5@usf.edu.
LONG TERM CARE ADMINISTRATION FACULTY


B.S.W. - SOCIAL WORK (SOK)
(CIP = 44.0701)
TOTAL DEGREE HOURS: 120

http://www.usf.edu/cbcs/social-work/programs/bsw-program/index.aspx

Certified Global Pathways Program

The University of South Florida offers a program of study leading to a Bachelor of Social Work (B.S.W.) degree in the School of Social Work, College of Behavioral & Community Sciences. The B.S.W. has been developed in accordance with the guidelines of the Council on Social Work Education, the national accrediting body for social work education programs, and in accordance with the recommendations of the National Association of Social Workers. The B.S.W. program is fully accredited by the Council on Social Work Education and is a limited access program. The primary objective of the B.S.W. program is the preparation of the graduate for beginning level professional practice as a social work generalist. The secondary objectives of the B.S.W. program are to:

1. Provide for the social work human resources needs of the university service district (the central Florida west coast area), the State of Florida, and the Southeast Region;
2. Prepare graduates for additional professional training at the graduate level in social work or in related human service professions;
3. Provide an exposure to social work as a profession and to contemporary issues in the social welfare field.

In preparing the B.S.W. graduate for beginning professional practice, the curriculum provides students with an opportunity to develop a knowledge base and skill base as a "generalist" practitioner. Students will develop an understanding of various methods of intervention and skills in their application to a variety of client systems. For example, intervention methods may take the form of individual and group counseling, resource development, consultation, teaching, advocacy, etc. Client systems may be individuals, families, groups, organizations, or communities. The student will develop an understanding of the dynamics of human behavior in individual, group and organizational contexts and the influences of the socio-cultural environment upon those behaviors. The student will learn about the development of social welfare systems and institutions and the social, economic, and political processes affecting policy development and program implementation. The student will develop an understanding of the utilization of basic social research skills particularly related to the processes of problem-solving, planning, and evaluation. The student will also become aware of the value base of the profession and engage in a self-examination process as it relates to the development and reflection of ethical and effective professional practice. The B.S.W. program places great emphasis on the development of a professionally responsible graduate in terms of one's obligations to the client system served, the profession itself, the organization in which one works, and to the general public which ultimately provides any profession with legitimacy.

This program has been certified as a Global Pathway. Global Pathway programs have significant global content and align with the goals of USF’s Quality Enhancement Plan, the Global Citizens Project. Students in Global Pathway programs are well positioned to earn the Global Citizen Award and become eligible to apply for a study abroad scholarship offered by the Global Citizens Project.
LIMITED ACCESS

THIS MAJOR HAS ADDITIONAL ADMISSIONS REQUIREMENTS AS LISTED IN THIS SECTION.

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.

STATE MANDATED COMMON COURSE PREREQUISITES

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 General Education 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.

Transfer students are also required to comply with the immunization, foreign language, and continuous enrollment policies of the university.

Students should complete the following prerequisite courses 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 in prerequisite courses.

- One course in each of the following cognate areas:
  - POS X041 or PUP X099 American Government
  - BSC X005 or BSC X085 or BSC X010 or PCB X099 Human Biology
  - ECO X000 or ECO X023 or ECO X013 Economics
  - PSY X012 Psychology
  - SYG X000 or SYG X010 Sociology

(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.)

REQUIREMENTS FOR THE MAJOR IN SOCIAL WORK

REQUIRED SUPPORTING COURSES FOR THE MAJOR: 3 HOURS

The following courses are prerequisite and supporting courses for this major. They are required for the major, but are not counted in the total hours for this major. The degree will not be awarded if these courses have not been taken by the end of the student’s final semester.

SOW 3203 Introduction to Social Work

TOTAL MAJOR HOURS: 41

MAJOR REQUIREMENTS FOR THE B.S.W. DEGREE:

MAJOR CORE (41 HOURS)

A major in Social Work requires 41 credits in a lock-step (pre-set) schedule.

Students must take the following courses during their first semester admitted in the program (15 credit hours):

- SOW 3101 Human Behavior and the Social Environment I
- SOW 4341 Multi-Methods of Social Work Practice I: Micro-System Intervention
Once the above courses have been successfully completed, students must take the following courses during their 2nd semester in the program (14 credit hours):

- SOW 3102 Human Behavior and the Social Environment II
- SOW 4343 Multi-Methods of Social Work Practice II: Macro-System Intervention
- SOW 4414 Social Work Data Management
- SOW 4315 Social Work Case Management with Special Populations
- SOW 4233 Social Welfare: Policy and Program

Once all above courses have successfully been completed, students must take the following courses (12 credit hours):

- SOW 4602 Social Work Practice in Mental Health and Health Care
- SOW 4510 Integrative Seminar

One course in each of the following cognate areas:

- American Government: POS 2041 American National Government
- Human Biology: BSC 1005 Biology for Life or BSC 1020 Human Biology or BSC 2085 Anatomy & Physiology
- Economics: ECO 1000 Basic Economics or ECO 2013 Macroeconomics or ECO 2023 Microeconomics
- Psychology: PSY 2012 Introduction to Psychological Science
- Sociology: SYG 2000 Introductory Sociology or SYG 2010 Contemporary Social Problems

Complete a formal application to the BSW program during the semester of finishing all requirements for eligibility into the major, including the foundation class, SOW 3203 Introduction to Social Work. The School of Social Work admits all eligible, qualified applicants.

There is a maximum of 2 semester application reviews for admission to the BSW program.

SOW 3203 Introduction to Social Work is the only social work foundation course required for eligibility into the major. It is open to all students.

**GPA REQUIREMENTS**

Admission to the University and a minimum USF/Overall GPA of 2.75.

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.

**COURSE GRADE REQUIREMENT**

SOW 3203 Introduction to Social Work requires a minimum grade of "B" for eligibility into the major (a grade of "B-" is not acceptable). This course may be attempted a maximum of two times for eligibility into the major.
GRADING REQUIREMENT

Completion of 15 semester hours of common course prerequisites with a minimum grade of “C” or better (2.0) in each course.

Students must successfully complete their BSW core courses by earning a “C” or better. A grade of “C-” is not acceptable as a passing grade.

If Introduction to Social Work is completed at another institution, the student must have earned a grade of “B” or better in that course. If the student does not meet this minimum grade, the course may be repeated one time at USF for eligibility. A syllabi must be provided by the student and reviewed in the School of Social Work prior to approval of any transfer of social work courses.

FOREIGN LANGUAGE REQUIREMENT

Students must meet the University’s FLENT (Foreign Language Entrance Requirement), which requires successful completion of two years of the same foreign language in high school. If foreign language is not completed in high school, successful completion of two semesters of the same college-level foreign language is required.

RESEARCH OPPORTUNITIES

The diverse research interests of the faculty in the School of Social Work provide a wide array of opportunities for students to interface with evidence-based research studies. Current research interests include treatment of childhood trauma; quality of care outcomes for vulnerable populations with particular emphasis on older adults with co-occurring mental and physical health disorders; health effects of intimate partner violence; implications of health care practices and interventions involving Latinos; reduction of health and mental health disparities for Haitians, and the development of psycho-social resources in community and long-term care settings.

INTERNSHIP OPPORTUNITIES

Hands-on, practical experience is integrated in the core curriculum through the 460 hours of field placement that students complete during their final semester in the program. The School of Social Work has partnerships for the field experiences with an abundance of agencies in the surrounding communities. Students have many choices for the populations and environments in which they would like to develop their skills and prepare for professional employment. Internship (field placement) areas include child welfare, substance abuse, medical social work, mental health, children and adolescent services, forensic mental health, domestic violence, veteran’s services, court/justice system, crisis center, elder care, hospice and homelessness.

ACCREDITATION INFORMATION

The School of Social Work programs are accredited by the Council on Social Work Education (CSWE).

OTHER INFORMATION

USF Bachelor of Science Social Work graduates may be eligible for admission into USF’s Master of Social Work Advanced Standing programs.

Students who obtain a minimum 3.0 GPA overall and a 3.25 GPA in the Social Work courses required for the major are eligible for membership in the National Social Work Honor Society, Phi-Alpha/Delta Sigma chapter at the University of South Florida. Phi Alpha is a national honor society for social work students who have attained excellence in scholarship. Its mission is to provide a network among students of social work and to promote humanitarian goals and ideals. Study abroad through the School of Social Work includes India and Spain opportunities during alternating summer semesters.

ADVISING INFORMATION

Advising is available in office, by phone and email. We welcome students to contact our advisor to learn more about the social work profession and the BSW degree.

Amy Weisz, MSW, LCSW; 813-974-7292; aweisz@usf.edu; MHC 1405.
MINOR IN AGING SCIENCES (AGE)

TOTAL MINOR HOURS: 15

http://www.usf.edu/cbcs/aging-studies/academics/bs/minor.aspx

An undergraduate minor is available for students interested in pursuing careers in aging in conjunction with any undergraduate major, but it should be particularly beneficial to students majoring in such disciplines as anthropology, business, communication sciences and disorders, government and international affairs, nursing, psychology, public health, health care, social work, and sociology.

REQUIREMENTS FOR THE MINOR IN AGING SCIENCES

MINOR CORE (9 HOURS)

- GEY 2000 Introduction to Aging Sciences

Choose 2 of the following 3 courses:

- GEY 3601 Physical Changes and Aging
- GEY 4612 Psychology of Aging
- GEY 4628 Health, Ethnicity, and Aging

MINOR ELECTIVES (6 HOURS)

Six (6) additional credit hours of GEY coursework, including DEP 2004.

Courses may not be taken on a S/U basis.

GPA REQUIREMENTS

A minimum overall 2.0 GPA in minor coursework.

GRADING REQUIREMENT

A grade of lower than "C-" in Aging Sciences courses will not be counted toward fulfilling the requirements for the minor.

ADVISING INFORMATION

Application for the minor is required. Contact the Undergraduate Advisor.
The Applied Behavior Analysis (ABA) 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.

**REQUIREMENTS FOR THE MINOR IN APPLIED BEHAVIOR ANALYSIS**

**MINOR CORE (18 HOURS)**

- MHS 3204 Fundamentals of Applied Behavior Analysis or CLP 4414 Behavior Modification
  - Students who take CLP 4414 may not be eligible to take the national certification exam. Contact the ABA minor coordinator with questions.
- MHS 4202 Behavioral Assessment and Intervention Planning (prerequisite MHS 3204 or CLP 4414)
- MHS 4206 Applied Behavior Analysis in Autism and Developmental Disabilities (prerequisite MHS 4202)
- MHS 4412 Research Methods and Ethical Issues in Behavior Analysis (prerequisite MHS 4202)
- MHS 4943 Practicum Seminar in Applied Behavior (co-requisite MHS 4202)
- MHS 4XXX Ethics, Supervision, and Management in ABA (prerequisite MHS 4202)

**MINOR ELECTIVES**

**GPA REQUIREMENTS**

A grade of B- or higher is required in every course in the minor. If a student gets a grade lower than a B- in a course, the student must retake that course to stay in the minor.

**RESIDENCY REQUIREMENT**

At least twelve (12) credit hours must be taken in residence at USF.

**ADVISING INFORMATION**

Students may contact department for general questions at 813-974-3096 or aNeal@usf.edu.

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.
REQUIREMENTS FOR THE MINOR IN BEHAVIORAL HEALTHCARE

MINOR CORE (15 HOURS)

- MHS 3411 Multidisciplinary Behavioral Healthcare Services
- MHS 4002 Behavioral Health Systems Delivery
- MHS 4408 Exemplary Practices in Behavioral Healthcare Treatment
- MHS 4723 Professional Seminar in Behavioral Healthcare
- MHS 4425 Field Experience in Behavioral Healthcare*

*A student completing a field placement in Psychology, Social Work, or other human services discipline may request an exemption (from the advisor) from MHS 4425 and may substitute an approved elective. Students must apply to take MHS 4425 Field Experience in Behavioral Healthcare two semesters before taking the course. This course has three prerequisites: MHS 3411 with a B- or higher, MHS 4002, and MHS 4408. The application, application deadlines, and additional information about the course can be found on the Field Experience webpage: http://www.usf.edu/cbcs/mhlp/students/field-experience.aspx.

GPA REQUIREMENTS

A GPA of 2.00, or better in this minor is required for completion.

RESIDENCY REQUIREMENT

At least nine (9) credit hours must be taken in residence at USF.

ADVISING INFORMATION

For questions about the BHC minor, email bhc_advise@usf.edu.

MINOR IN CRIMINOLOGY (CCJ)

TOTAL MINOR HOURS: 18

http://www.usf.edu/cbcs/criminology/undergraduate/minor.aspx

The objective of the undergraduate minor in Criminology is to develop an educational basis either for graduate work or for professional training in the modern urban criminal justice system.

REQUIREMENTS FOR THE MINOR IN CRIMINOLOGY

MINOR CORE (6 HOURS)

- CCJ 3024 Survey of the Criminal Justice System
- CCJ 3117 Theories of Criminal Behavior

MINOR ELECTIVES (12 HOURS)

12 semester hours of electives within Criminology.

GPA REQUIREMENTS

A minimum GPA of 2.0 or higher in minor coursework.

GRADING REQUIREMENT

Students minoring in Criminology are also subject to the Department's "D" Rule.
RESIDENCY REQUIREMENT
A minimum of 9 semester credit hours of minor coursework must be completed at the University of South Florida.

OTHER REQUIREMENTS
Students who are minoring in Criminology will not be permitted to register for CCJ 4934 Senior Seminar capstone requirement as it is designated for Criminology majors only.

ADVISING INFORMATION
Criminology Academic Advising: at ccjadvise@usf.edu.

MINOR IN DEAF STUDIES (DFT)
TOTAL MINOR HOURS: 17
http://www.usf.edu/cbcs/csd/documents/dst-minor-fall2017.pdf The 17-credit hour minor is open to all students who are currently not majoring in Communication Sciences and Disorders.

REQUIREMENTS FOR THE MINOR IN DEAF STUDIES

MINOR CORE (17 HOURS)
ASL 2140C Basic American Sign Language
ASL 2150C Intermediate American Sign Language
ASL 3514 Deaf Culture
SPA 3002 Introduction to Communication Sciences and Disorders
SPA 3470 Culture and Diversity in CSD

GPA REQUIREMENTS
A cumulative GPA of 2.00 or better must be achieved in minor coursework in order for a student to be certified for graduation with a minor in Deaf Studies.

GRADING REQUIREMENT
A minimum grade of C- is required for each course.

RESIDENCY REQUIREMENT
Students seeking a minor in Deaf Studies must complete a minimum of three (3) courses within the minor with the Department of Communication Sciences and Disorders at USF.

OTHER REQUIREMENTS
Seat availability in ASL courses is limited and is first-come/first-serve, with priority consideration given to ITT and DST majors needing ASL coursework to meet a major requirement to graduate. Declaring the minor does not guarantee seat availability; therefore, students should attempt to register as soon as possible each semester.

ADVISING INFORMATION
For questions about the minor, email csdadvising@bcs.usf.edu.
MINOR IN FORENSIC BEHAVIORAL HEALTH (FBH)

TOTAL MINOR HOURS: 15

The minor in Forensic Behavioral Health is available to students interested in pursuing the interaction of mental health and substance use disorders with the criminal justice system. It should be particularly beneficial for students in disciplines such as criminology, psychology, social work, sociology, anthropology, public health, and pre-law.

REQUIREMENTS FOR THE MINOR IN FORENSIC BEHAVIORAL HEALTH

Prior to enrolling in courses for the minor, students should complete at least one introductory course (3 credit hours) in Behavioral or Social Sciences. Students should consult with the Behavioral Healthcare academic advisor to determine applicable courses.

MINOR CORE (12 HOURS)

- CCJ 4613 Forensic Psychology
- MHS 4022 Adult Psychopathology in the Community
- MHS 4452 Co-Occurring Disorders
- MHS 4455 Drug Abuse Prevention and Treatment

MINOR ELECTIVES (3 HOURS)

Students must choose one of the following courses:

- MHS 4023 Recovery Oriented Mental Health Services
- MHS 4453 Applied Psychopharmacology in Drug Abuse and Dependence
- MHS 4454 Alcohol, Drugs, and Crime
- MHS 4703 Legal, Ethical, & Professional Issues in Behavioral Healthcare

GPA REQUIREMENTS

A minimum overall 2.0 GPA in minor coursework is required for completion of the minor.

RESIDENCY REQUIREMENT

At least nine (9) credit hours must be taken in residence at USF.

ADVISING INFORMATION

For questions about the minor, please contact: bhc_advise@usf.edu.

CERTIFICATE IN ADDICTIONS AND SUBSTANCE ABUSE PROFESSION

TOTAL CERTIFICATE HOURS: 15

http://www.usf.edu/cbcs/undergraduate/certificates.aspx

The Addictions and Substance Abuse Certificate is designed for students interested in pursuing a career working in the addiction and substance abuse field. Completion of the certificate program meets partial requirement for state certification as an addiction professional (CAP). According to the Florida Certification Board, the CAP designation is a professional substance abuse credential for people who assess, develop and provide substance abuse treatment services and plans. individuals holding the CAP are recognized/hold the practice rights of "qualified professionals" per Chapter 397, F.S. and is recognized by Florida's State Medicaid Plan. Therefore, this credential will allow students to practice in substance abuse field. This certificate program is beneficial to persons in sociology, social work, psychology, criminology, pre-med, nursing, and any closely related human service field.
REQUIREMENTS FOR THE CERTIFICATE IN ADDICTIONS AND SUBSTANCE ABUSE PROFESSION

CERTIFICATE CORE (15 HOURS)

RCS 4504 Therapeutic Communication Skills for Addiction Counseling
RCS 4452 Assessment, Diagnosis, and Treatment of Addictions
RCS 4453 Overview of Addictive Disorders or MHS 4453 Applied Psychopharmacology in Drug Abuse and Dependency
RCS 4503 Addictions Treatment and Special Populations or MHS 4455 Drug Abuse Prevention and Treatment
RCS 4051 Addictions Counseling and Coordination of Services

GPA REQUIREMENTS
An overall USF GPA of at least 2.50 must be maintained.

GRADING REQUIREMENT
A grade of “B” (not B-) must be obtained in all courses applying toward the certificate.

ADVISING INFORMATION
Email Vicky Buckles (vbuckles@usf.edu) with questions.

CERTIFICATE IN UNDERGRADUATE RESEARCH IN BEHAVIORAL & COMMUNITY SCIENCES

TOTAL CERTIFICATE HOURS: 16

http://www.usf.edu/cbcs/undergraduate/certificates.aspx

The Undergraduate Research certificate is designed for students interested in attending graduate school or pursuing research careers. Students complete a systematic undergraduate research preparation program consisting of 16 hours of coursework, many of which will count toward their general education requirements or requirements for their major.

REQUIREMENTS FOR THE CERTIFICATE IN UNDERGRADUATE RESEARCH IN BEHAVIORAL & COMMUNITY SCIENCES

CERTIFICATE CORE (16 HOURS)

- IDS 1505 Introduction to Research in Beh.& Com. Sciences
- IDS 2600 Applications of Research in Community Settings
- STA 2122 Social Science Statistics (or approved Statistics course)
- Research Methods Course (PSY 3213; CCJ 3701; GEY 4401; SOW 3401 or equivalent)
- MHS 4741 Applied Research Methods
- MHS 4731 Writing for Research and Publication in Behavioral and Community Sciences
- Directed Research or Thesis

GPA REQUIREMENTS
An overall USF GPA of at least 2.50 must be maintained.
GRADING REQUIREMENT

A grade of "B" (not B-) must be obtained in all courses applying toward the certificate.

RESEARCH OPPORTUNITIES

Students who are pursuing a major or minor in the College of Behavioral and Community Sciences will have the opportunity to apply for Undergraduate Research Assistantships to work with a faculty member conducting research in an area of interest to the student. Students may also participate in the CBCS Undergraduate Research Interest Group. Contact: Lisa Landis (llandis@usf.edu) for additional information.

ADVISING INFORMATION

Email Lisa Landis (llandis@usf.edu) with questions.
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Human Resources Management (HRM) Concentration
Project Management (MPM) Concentration
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Muma College of Business

Contact Information

Muma College of Business
4202 E. Fowler Avenue, BSN 3403
Tampa, FL 33620
(813) 974-4281
https://www.usf.edu/business/

Physical Location: Muma College of Business (BSN) at the corners of USF Alumni Drive and USF Maple Drive.

About the College

The Muma College of Business offers courses of study leading to both undergraduate and graduate degrees. All degree programs in the Muma College of Business are fully accredited by AACSB International — The Association to Advance Collegiate Schools of Business.

The Muma College of Business offers undergraduate majors in the following areas of study: Accounting, Advertising, Business Analytics and Information Systems, Finance, Personal Finance, Global Business, Management, Marketing, and Supply Chain Management. It also offers a General Business Studies major, which is a completer major used for students who are not able to progress in their declared Business major. The Muma College of Business also offers a dual degree with the College of Arts and Sciences in Business Analytics and Information Systems and Biomedical Sciences.

The Muma 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://www.usf.edu/business/.

Mission, Vision, Values

Mission

We emphasize creativity and analytics to promote student success, produce scholarship with impact, and engage with all stakeholders in a diverse global environment.

Vision Statement

Transforming minds: Transforming business. We aspire to be internationally recognized for developing business professionals who provide analytical and creative solutions in a global environment.

Accreditation

The Muma College of Business offers courses of study leading to both undergraduate and graduate degrees. All degree programs in the Muma College of Business are fully accredited by AACSB International — The Association to Advance Collegiate Schools of Business.

AACSB provides internationally recognized, specialized accreditation for business and accounting programs at the bachelor’s, master’s, and doctoral level. The AACSB Accreditation Standards challenge post-secondary educators to pursue excellence and continuous improvement throughout their business programs. AACSB Accreditation is known, worldwide, as the longest standing, most recognized form of specialized/professional accreditation an institution and its business programs can earn. AACSB-accredited schools have the highest quality faculty, relevant and challenging curriculum, and provide educational and career opportunities that are not found at other business schools.
Admission

Requirements for Admission to the Muma College of Business:

Admission to the Muma 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 Muma College of Business must complete the required prerequisites for entering the College in addition to other related criteria listed below.

1. Minimum of 60 semester hours of college credit earned.
2. Minimum of a cumulative grade point average of 2.5 on all college-level work and a minimum of 2.0 on all credit attempted at USF, including any prior to renewal. For transfer students, please review below the “Transfer Students” admission section.
   - NOTE: Beginning Fall 2013 the Muma College of Business will establish each fall a new minimum overall GPA required to satisfy the limited access GPA admission requirement. The minimum overall GPA will range between a 2.5 with a maximum required GPA of a 2.75. Students will be notified each fall as to the minimum entrance GPA required for the following fall semester. Notification will occur through Canvas and updated at the following link: https://www.usf.edu/business/undergraduate/requirements-general.aspx.
3. Completion of the following State Mandated Common Prerequisites (or equivalents) with a grade of C- or higher in each course and an overall 2.0 GPA:
   - *ACG X021/ACG X022 Financial Accounting (or ACG X001 & ACG X011)
   - *ACG X071 Managerial Accounting (or X301)
   - CGS X100 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 (STA X023 and QMB X100 are preferred)
   - *Accounting majors must earn a C not C- in ACG 2021 & ACG 2071

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.

A minimum score of 550 on paper and pencil or 213 on computerized TOEFL is required, when applicable.

Students must be admitted to the Muma College of Business at least one term before their anticipated graduation date.

For more information, see the General Requirements at the Muma College of Business website https://www.usf.edu/business/undergraduate/requirements-general.aspx

Admission requirements for First Time in College Students

First time in college students who meet the criteria below are granted direct entry to the Muma College of Business.

- Admitted for fall entry to USF as a degree seeking student OR
- Test scores: SAT minimum 1210, Math 570 or ACT 25, Math 25 AND
- Minimum weighted high school GPA: 3.5

First time in college students who do not meet the criteria above will be classified as pre-business and admitted after meeting the upper level admission requirements.
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, and meet the FTIC admission requirements (listed above). These freshmen are admitted directly to the Muma College of Business upon admission to USF (while the majority of 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 or the Zimmerman Advertising Program Community, residential programs 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 https://www.usf.edu/business/undergraduate/bbn/.

Living-Learning Communities - The Bulls Business Community or Zimmerman Advertising Program (ZAP) Community

Freshmen are encouraged 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 communities, the Bulls Business Community (BBC) and Zimmerman Advertising Program Community (ZAP). Here, students are offered very different programming opportunities. Two exclusive academic advisors and a 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 less than 200 business students living on five floors in Endeavor Hall. In addition, all BBC/ZAP students have the opportunity to apply to the Honors Program in Business. For further information about the BBC or ZAP please visit https://www.usf.edu/business/undergraduate/bbc/.

Transfer Student Admission Requirements

In addition to general admission requirements, 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. For more information, see https://www.usf.edu/business/undergraduate/requirements-transfer.aspx.

Students who transfer to the USF Muma College of Business must meet one of the following admission guidelines below:

1. Students transferring to USF with 60 or more transferrable credits, and all state mandated prerequisites successfully completed, must have a minimum 2.5 overall GPA.
2. Students transferring to USF with 60 or more transferrable credits, but have not successfully completed all state mandated prerequisites, must have an overall 2.75 GPA.
3. To be fully admitted to the Muma College of Business, transfer students must complete all state mandated prerequisite courses with a grade of C- or better in each course and an overall 2.0 GPA in all seven (7) courses. The courses are:
   - Financial Accounting: ACG X201/ACG X202 (or ACG X001 & ACG X011)
   - Managerial Accounting: ACG X071 (or ACG X301)
   - Computers in Business: CGS X100 (or acceptable substitute)
   - Principles of Macroeconomics: ECO X013
   - Principles of Microeconomics: ECO X023
   - Elementary Calculus: MAC X233 or MAC 2230
   - Statistics: QMB 2100 or STA 2023
**Associate of Arts Transfers:** Florida public state or 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 state or 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 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. 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 Muma 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.

**Associate of Science Transfers:** Florida College System students pursuing an Associate of Science (AS) program in General Business Administration are fully admissible to USF. Please see a business advisor to determine the articulation of courses, discuss admission to the Muma College of Business and prepare a program plan for degree completion. Students transferring to the Muma College of Business with an A.S.in General Business Administration may earn a major in only Management. Florida College System students pursuing an Associate of Science (AS) program in any other discipline should contact the BSAS program in the Office of Undergraduate Studies, SVC 2002, (813) 974-4051, for information regarding course transferability and degree articulation.

**College-Level Requirements**

**General Requirements for B.A./B.S. Degrees in 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 by the Muma College of Business). Additional electives may be required to reach a minimum of 120 hours and can be either business or non-business. NOTE: Beginning Fall 2013 the Muma College of Business will establish each fall a new minimum overall GPA required to satisfy the limited access GPA admission requirement. The minimum overall GPA will range between a 2.5 with a maximum required GPA of a 2.75. Students will be notified each fall as to the minimum entrance GPA required for the following fall semester. Notification will occur through CANVAS and updated at [https://www.usf.edu/business/undergraduate/requirements-general.aspx](https://www.usf.edu/business/undergraduate/requirements-general.aspx).

As a part of the 120-hour requirements for the B.A. or B.S. degree, the following criteria also apply:

- **GPA:** A minimum grade-point average of 2.0 must be achieved in the following areas:
  - The major and minor fields
  - College foundation courses
  - All USF coursework
  - Overall GPA (USF and all transfer work)

- **State Communication and Computation Requirements:** Students must have satisfactorily completed the State Communication Requirement and State Computation Requirement.

- **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 Muma College of Business does not approve American Sign Language for the Foreign Language Exit Requirement.

- **Residency:** Muma 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 Muma College of Business students must meet 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. Consult with a business advisor for approved courses.

- **Academic Dismissal:** Students dismissed more than once from the USF System for academic reasons will not be readmitted to the Muma College of Business - Tampa.

Academic Progression: The Muma College of Business supports the USF degree progression policy. Failure to meet degree progress may result in removal from the college to a program more appropriate to ensure students' success.

**Degree Requirements (120 credit hours)**
NON-BUSINESS (54 hrs. minimum)

Enhanced General Education Requirements

1. Communication/English Composition (ENC 1102 is required) (6 credit hours)
2. General Education Core Mathematics and Quantitative Reasoning (Calculus and Statistics are required) (6 credit hours)
3. General Education Core Natural Sciences (3 credit hours)
4. General Education Core Social Sciences (Macroeconomics is required) (3 credit hours)
5. General Education Core Humanities (3 credit hours)
6. Human Cultural Diversity (Business Law is required) (3 credit hours)
7. Information & Data Literacy (CGS 2100 is required) (3 credit hours)
8. Creative Thinking (Microeconomics is required) (3 credit hours)
9. Ethical Reasoning & Civic Engagement (3 credit hours)
10. High Impact Practice (3 credit hours)

Non-Business Requirements for Business Majors

1. SPC 2608 Public Speaking or COM 3110 Communication for Business and the Professions
2. ENC 3250 Professional Writing or ENC 3310 Expository Writing or equivalent It is recommended that transfer students take ENC 3250 or ENC 3310 their first semester at USF.

Additional elective credits - Students may or may not need to take additional hours to meet the minimum of 54 non-business credits.

Students must satisfy the State Civic Literacy Requirement (0-3 credits) See advisor for more information.

BUSINESS (63-66 hrs. minimum):

1. Foundation Courses in Business - Required - a minimum grade of C- in each foundation course with an overall 2.0 GPA (36 credit hours):
   - ACG 2021 Principles of Financial Accounting*
   - ACG 2071 Principles of Managerial Accounting*
   - QMB 2100 Business & Economic Statistics I
   - BUL 3320 Law and Business I
   - FIN 3403 Principles of Finance**
   - GEB 3033 Business Skills and Professional Communications
   - ISM 3011 Information Systems in Organizations***
   - QMB 3200 Business & Economic Statistics II
   - MAN 3025 Principles of Management
   - MAN 4504 Operations and Supply Chain Management
   - MAR 3023 Basic Marketing****
   - GEB 4890 Strategic Management/Decision Making
*Accounting majors must earn C, not C-, in ACG 2021 & ACG 2071
**Finance majors must earn a C, not C-, in FIN 3403 with no more than two attempts
***Business Analytics and Information Systems (B.A.IS) majors must earn C, not C-, in ISM 3011
****Advertising and Marketing majors must earn C, not C-, in MAR 3023

2. Major Requirements (21-24 credit hours)

3. Required Business Electives (3 credit hours):
   CGS 2100 Computers in Business

Electives in Business or Non-Business

Sufficient elective courses to reach a minimum of 120 hours (ranges from 0-3 credit hours if above requirements are met). Minimum total hours 120.

Grading Requirements

Courses are not available for audit. All courses in the major or minor field and all foundation coursework in business must be taken on a graded basis. S/U grading is available for Finance and Accounting internship courses only.

D/F Policy

All students entering USF for the first time in Fall 2017 or later, who subsequently earn three (3) D and/or F grades in any or any combination of the following courses at USF will be required to change their major to a major more appropriate to their goals and academic performance and to a major not conferred by the Muma College of Business. The courses are: ACG 2021, ACG 2071, CGS 2100, ECO 2013, ECO 2023, MAC 2233 (or equivalent), and QMB 2100 (or equivalent).

Other Requirements

Computer Requirement

All students entering the Muma 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.

Baccalaureate-Level Degree Programs

Following are the undergraduate academic programs offered by the Muma College of Business:

Bachelor of Arts (B.A.) or Bachelor of Science (B.S.) Option

- Advertising
- Global Business

Bachelor of Science (B.S.)

- Accounting
- Business Analytics and Information Systems
- Finance
- General Business Studies
- Management
- Marketing
- Personal Finance
Concurrent Degrees

Business Analytics and Information Systems with a concentration in Healthcare Business and Biomedical Sciences

The dual-degree program in Biomedical Sciences (BMS) and Business Analytics and Information Systems (BAIS), with a concentration in Healthcare Business (HCBC) meets the needs of the marketplace for medical professionals who are well versed in the use of information technology. Combining a Business degree with a focus in analytics with a traditional Pre-Med Biomedical Science degree gives students the skills needed to manage a private practice or medical research program that involves data analytical skills.

While MBA programs are very popular among physicians, there are few programs in the country that allow prospective physicians the opportunity to obtain business knowledge before starting.

INITIAL ELIGIBILITY REQUIREMENTS

- Admission to the Muma College of Business as a first-year student
- 3.8 weighted high school GPA, as calculated by USF’s Office of Undergraduate Admissions
- SAT score of at least 1300, which is based off the new SAT, with minimum 600 math OR ACT score of at least 27
- Declared intent to obtain dual degrees in these programs

CONTINUATION REQUIREMENTS

- At the end of the first summer semester, students must attain both an overall and science/math grade point average GPA of at least 3.60, without the use of grade forgiveness. If students transfer in a GPA, the overall and science/math GPAs from all coursework completed at USF must also be 3.60 or higher.
- First-year science requirements must be completed by the summer of the first year.
- Students who do not meet progression requirements must exit the dual-degree program and will be directed to academic advising in the appropriate discipline.
- Students should plan to meet with a Health Professions advisor and Business advisor each semester to confirm accuracy and receive individual recommendations. For more information, see https://www.usf.edu/business/undergraduate/bais/.
- Students are responsible for verifying that the courses indicated above meet the requirements of their specific programs of interest.
- In addition to meeting with a Health Professions Advisor, students should meet with their Academic Advisor (for their major) each semester to ensure they are also meeting graduation requirements.

Accelerated Programs

B.S. Advertising/M.S. Advertising
https://www.usf.edu/zap/programs/masters.aspx

A 4+1 exists between the Muma College of Business BS in ADV and the Zimmerman School of Advertising and Mass Communications. Students can complete the MS program in one year.

Honors Programs

The Business Honors Program at the University of South Florida is one of the most prestigious programs established to inspire passion and nurture exemplary potential in students. Our program blends rigorous coursework and research activities with special residential, service, international, and applied learning opportunities found inside and outside of the classroom. The Business Honors Program brings together distinct features which include:

- Small classes that enhance learning
- Study abroad program geared toward understanding the global business environment
- Summer internship opportunities with top-rated business companies
- Comprehensive study in research and computational methods
Research opportunities associated with your Honors thesis
Corporate mentoring with industry leaders
Personalized advising

For more information, see https://www.usf.edu/business/undergraduate/honors/program.aspx.

Minors

Accounting (For Business Majors Only)
Students majoring in business may minor in accounting.

Business Analytics and Information Systems (For Business Majors Only)
https://www.usf.edu/business/undergraduate/BAis/minor.aspx
Students majoring in Business may minor in Business Analytics and Information Systems.

Entrepreneurship (Two options: For Non-Business and Non-Industrial Engineering Majors Only and For Business and Industrial Engineering Majors Only)
https://www.usf.edu/entrepreneurship/programs/undergraduate/
Whether students would like to increase their entrepreneurial business skills, pursue their own business ideas, or learn ways to bring innovation into existing positions and businesses, an entrepreneurship minor teaches valuable skills. Minors available for Business and Non-Business Majors.

Finance (For Business Majors Only)
https://www.usf.edu/business/undergraduate/finance/minor.aspx
Students majoring in business may minor in finance.

Management (For Business Majors Only)
Students majoring in business may minor in management.

Marketing (For Business Majors Only)
https://www.usf.edu/business/undergraduate/marketing/minor.aspx
Students majoring in business may minor in marketing.

Concentrations

A concentration is any organized set of courses that is offered as part of a major and enhances or complements the degree program to be awarded in a manner that leads to specific educational or occupational goals, and/or from different disciplines that provide an interdisciplinary focus.

BUSINESS ANALYTICS AND INFORMATION SYSTEMS
- Cybersecurity
- Healthcare Business

FINANCE
- Asset Management
- Corporate Finance
- Real Estate

GLOBAL BUSINESS
- Business Analytics and Information Systems
- Finance
- Management
- Marketing
MANAGEMENT

- Human Resources Management
- Project Management

MARKETING

- Entrepreneurship
- Sales
- Supply Chain Management
- Sport and Entertainment Management

Certificates

Business Analytics and Information Sciences
https://www.usf.edu/business/undergraduate/bais/certificate.aspx

This certificate is designed exclusively for non-business majors. Perfect for students majoring in mass communications, criminology, psychology, international studies, social work, public health, history, philosophy, languages, political science or computer science (or similar majors), this program provides the information systems and business analytics knowledge - without having to pursue a business minor.

Sales
https://www.usf.edu/business/undergraduate/marketing/certificate-sales.aspx

USF's Sales Certificate is designed for non-business majors. The Sales Certificate is ideal for students in STEM disciplines such as engineering, computer science, or biomedical studies. The key benefit from this specialized area of study is attaining advanced professional sales instruction. This development of skills and knowledge is critical for professionals to be successful in sales or business careers.

General Business
https://www.usf.edu/business/undergraduate/general/index.aspx

This certificate is designed exclusively for non-business majors. Perfect for students majoring in mass communications, criminology, psychology, international studies, social work, public health, history, philosophy, or political science (or similar majors), this program provides the business knowledge that will help students in these and other disciplines land a job where they can apply their skills in a corporate setting.

Undergraduate Advising Information

The Undergraduate Advising Office assists business students with academic advising, course permitting, and registration. The office also spearheads undergraduate initiatives such as the Bulls Business Network, Bulls Business Community, Business Honors Program, and Zimmerman Advertising Program.

Services:

- Orientation for freshmen and transfer students.
- Academic advising and program information for pre-business and fully admitted students who have applied to the Muma College of Business and declared business as their intended major.
- Evaluation of undergraduate transcripts for all declared and admitted business transfer students.
- Assist students with their degree progression, retention, and timely graduation.
- Certification of graduation.

Location: BSN 2102
(813) 974-4290 or schedule an advising appointment online at https://www.usf.edu/business/undergraduate/advising/appointments.aspx.
Office Hours:
Monday - Thursday 8:00am-6:00pm
Friday 8:00am- 4:00pm. (Friday is reserved for walk-in's only).
Please refer to website for most current office hours and advising availability information:
https://www.usf.edu/business/undergraduate/advising/

For questions email to bsn-fdesk@usf.edu.
Be sure to include your name, U#, and contact information with your question.

Collier Student Success Center
Located in BSN 2101
(813) 974-8155
https://www.usf.edu/business/student-success/

The Collier Student Success Center includes the Undergraduate Advising Office, Corporate Mentor Program, Muma Study Abroad Initiatives, Office of Employer Relations, and Business Communication Center. The Collier Student Success Center assists business students with academic advising, global experiences, building resumes, career planning, professional development opportunities and corporate networking events designed to enhance readiness at graduation.
B.S. - ACCOUNTING (ACC)
(CIP = 52.0301)
TOTAL DEGREE HOURS: 120

http://www.usf.edu/business/undergraduate/accounting/

The objective of the baccalaureate degree program in Accountancy is to provide students with accounting and business knowledge that will serve as a basis for careers in industry, government, non-profit organizations and public accountancy. The baccalaureate program also prepares students for entry into the Master of Accountancy (M.Acc.) professional degree program. The State of Florida requires completion of 120 semester hours to sit for the CPA examination and 150 semester hours are required for licensure. For additional information regarding becoming a Florida CPA, please visit the following links: http://www.myfloridalicense.com/dbpr/cpa/licensure.html and http://www.ficpa.org/Content/FutureCPAs/BecomeCPA.aspx.

LIMITED ACCESS

THIS MAJOR HAS ADDITIONAL ADMISSIONS REQUIREMENTS AS LISTED IN THIS SECTION.

Admission to the Muma College of Business is based upon availability of faculty and space within each discipline. The Muma College of Business 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 Muma College of Business must complete the required prerequisites for entering the College in addition to other related criteria listed below.

Students must satisfy the following criteria:

- Minimum of 60 semester hours of college credit earned.
- Minimum of a cumulative grade point average of 2.5 on all college-level work and a minimum of 2.0 on all credit attempted at USF, including any prior to renewal. NOTE: Beginning Fall 2013 the Muma College of Business will establish each fall a new minimum overall GPA required to satisfy the limited access GPA admission requirement. The minimum overall GPA will range between a 2.5 with a maximum required GPA of a 2.75. Students will be notified each fall as to the minimum entrance GPA required for the following fall semester. Notification will occur through Canvas and updated at the following link: http://www.usf.edu/business/undergraduate/requirements-general.aspx.
- 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.
- A minimum score of 550 on paper and pencil or 213 on computerized TOEFL is required, when applicable.

The Lynn Pippenger School of Accountancy has additional admission requirements beyond the entry requirements to the Muma College of Business. The additional requirements are as follows:

- Successful completion, with a minimum grade of C (not C-) of ACG 3103 Intermediate Financial Accounting I concurrently with one of the following courses:
  - ACG 3341 Cost Accounting and Control I
  - ACG 3401 AIS

Students who fail to obtain a minimum grade of C (not C-) in ACG 3103 and either ACG 3341, ACG 3401 or Tax 4001 within two cumulative attempts will be counseled into other majors either within the Muma College of Business or other colleges, as appropriate. "W" grades count as an attempt.
Within the 120-semester-hour program, students must complete a minimum of 24 hours of upper-level accounting with a grade of C not C in all courses. Accounting major courses must be no older than five (5) years to count for degree credit. This applies both to continuing USF accounting majors, as well as accounting major courses transferred in from other institutions. A student may petition the Director for an exception to the policy and the Director may grant or deny such a petition, at his/her discretion. Students must complete 18 hours of upper-level Accounting requirements in residency at USF Tampa. Finally, students must earn a 2.0 GPA on all major coursework at USF Tampa and have an overall 2.0 major GPA including any applicable transfer work.

STATE MANDATED COMMON COURSE PREREQUISITES

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 state or 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 state or 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 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. 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 Muma 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 Muma College of Business and prepare a program plan for degree completion. Students transferring to the Muma College of Business with an A.S. in Business Administration may earn a major in Management only.

Florida College System students pursuing an Associate of Science (A.S.) program in any other discipline should contact the Office of Undergraduate Studies, SVC 2002, (813) 974-4051, for information regarding course transferability and degree articulation.

Completion of the following State Mandated Common Course Prerequisites (or equivalents) with a grade of C- or higher in each course and an overall 2.0 GPA:

- *ACG X021 or ACG X022 Financial Accounting or (ACG X001 & ACG X011)
- *ACG X071** Managerial Accounting or ACG X301
- CGS X100 Computers in Business or CGS X100C or CGS X530 or CGS X570 or CGS X060 or CGS X531 or CGS X000 or ISM X000 or CGS X518
- ECO X013 Principles of Macroeconomics
- ECO X023 Principles of Microeconomics
- MAC X233 Elementary Calculus or MAC X230
- STA X023 Introductory Statistics or QMB X100 or STA X122

*Accounting majors must earn a C not C in ACG 2021 & ACG 2071

** ACG X071 will count toward the degree as elective credits for transfer students. However, it is recommended that native students take another non-accounting elective.
REQUIREMENTS FOR THE MAJOR IN ACCOUNTING

TOTAL MAJOR HOURS: 24

MAJOR REQUIREMENTS FOR THE B.S. DEGREE:

MAJOR CORE (18 HOURS)

Students must complete a minimum of 24 hours of upper-level accounting coursework with a grade of C not C- in all courses. Students must earn a 2.0 GPA on all major coursework at USF Tampa and have an overall 2.0 major GPA including any applicable transfer work. 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, with the exception of ACG 4940 Accounting Internship. Independent Research, ACG 4911, will not be accepted as credit toward the minimum degree requirements in the accounting concentration.

Students must complete 18 hours of upper-level Accounting requirements in residency at USF Tampa.

Accounting major courses must be no older than five (5) years to count for degree credit. This applies both to continuing USF accounting majors, as well as accounting major courses transferred in from other institutions. A student could petition the Director for an exception to the policy and the Director may grant or deny such petition, at his/her discretion.

- ACG 3103 Intermediate Financial Accounting I*
- ACG 3341 Cost Accounting and Control I*
- ACG 3113 Intermediate Financial Accounting II
- ACG 3401 Accounting Information Systems*
- ACG 4632 Auditing I
- TAX 4001 Concepts of Federal Income Taxation*

*Students must enroll in two courses their first semester within the Accounting major. During the first semester, all students must enroll in ACG 3103. The second course must be chosen from ACG 3341, ACG 3401 or TAX 4001. Students must complete at least one of these two required courses successfully with a grade of C (not c-) or higher on the first attempt. Students who are unable to complete either course on the first attempt are not permitted to retake either course and are assigned for major reselection.

MAJOR ELECTIVES (6 HOURS)

Choose six (6) credit hours from the following list of courses:

- ACG 4123 Intermediate Financial Accounting III
- ACG 4351 Cost Accounting and Control II
- ACG 4642 Auditing II
- ACG 4931 Selected Topics in Accounting
- ACG 4940 Accounting Internship
- ACG 5205 Advanced Financial Accounting
- ACG 5505 Governmental/Not-for-Profit Accounting
- ACG 5675 Internal and Operational Auditing
- TAX 5015 Federal Taxation of Business Entities

GPA REQUIREMENTS

Students must earn a 2.0 GPA on all major coursework at USF Tampa and have an overall 2.0 major GPA including any applicable transfer work.
RESIDENCY REQUIREMENT

Students must complete 18 hours of upper-level Accounting requirements in residency at USF Tampa.

OTHER REQUIREMENTS

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. Muma College of Business advisors will recommend courses that will satisfy the program requirements.

RESEARCH OPPORTUNITIES

All undergraduate students in any degree program can participate in undergraduate research. There are a number of options to receive academic credit for a mentored research experience and to have the experience show on the official transcript. Students who wish to enroll in an undergraduate research course should consult with their academic advisor to understand how the credit will apply towards the degree requirements. If no credit is needed, students may be eligible to enroll in the 0-credit IDS 2912, IDS 4914 or IDH 4910 courses. These courses will not impact degree credits or GPA but will show on an official transcript and document the experience. The Office of Undergraduate Research will assist students in understanding the various course options.

INTERNSHIP OPPORTUNITIES

It is recommended that Accounting students participate in an internship course (ACG 4940) as part of their plan of study. This course is offered on an S/U basis only.

ACCREDITATION INFORMATION

In addition to the Muma College of Business having AACSB accreditation, the Lynn Pippenger School of Accountancy is separately accredited by the Association to Advance Collegiate Schools of Business.

ADVISING INFORMATION

Advising Services:

- Orientation for freshmen and transfer students.
- Academic advising and program information for pre-business students who have applied to the Muma College of Business and declared business as their intended major.
- Students who meet all Muma College of Business admission requirements.
- Evaluation of undergraduate transcripts for all declared and admitted business transfer students.
- Maintenance of academic advising records.
- Certification of graduation.

Location: C.H. Ferguson Hall (Business Administration Building) (BSN) 2102, (813) 974-4290 or schedule an advising appointment on-line: http://www.usf.edu/business/undergraduate/advising/.

Office Hours: 8am-6pm Monday-Thursday and 8am-4pm on Friday. Always refer to website for most current office hours information.

ACCOUNTING FACULTY

B.A. OR B.S. - ADVERTISING (BAV)

(CIP = 52.1499)

TOTAL DEGREE HOURS: 120

http://www.usf.edu/business/undergraduate/advertising/

The Advertising major in the Muma College of Business is unique in that it is a collaborative effort between the Zimmerman School of Advertising and Mass Communications in the College of Arts and Sciences and the Marketing Department in the Muma College of Business. The major complements an existing Advertising track in the Mass Communications major and provides students the opportunity to combine the creative, media, and account planning aspects of advertising with knowledge, skills, and abilities in accounting, economics, finance, information systems, management, marketing and strategy.

LIMITED ACCESS

THIS MAJOR HAS ADDITIONAL ADMISSIONS REQUIREMENTS AS LISTED IN THIS SECTION.

Admission to the Muma College of Business is based upon availability of faculty and space within each discipline. The Muma College of Business 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 Muma College of Business must complete the required prerequisites for entering the College in addition to other related criteria listed below.

Students must satisfy the following criteria:

- Minimum of 60 semester hours of college credit earned.
- Minimum of a cumulative grade point average of 2.5 on all college-level work and a minimum of 2.0 on all credit attempted at USF, including any prior to renewal. NOTE: Beginning Fall 2013 the Muma 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 2.75. Students will be notified each fall as to the minimum entrance GPA required for the following fall semester. Notification will occur through Canvas and updated at the following link: http://www.usf.edu/business/undergraduate/requirements-general.aspx.
- 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.
- A minimum score of 550 on paper and pencil or 213 on computerized TOEFL is required, when applicable.

STATE MANDATED COMMON COURSE PREREQUISITES

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 state or 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 state or 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 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. 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 Muma 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 Muma College of Business and prepare a program plan for degree completion. Students transferring to the Muma College of Business with an A.S. in Business Administration may earn a major in Management only.
Florida College System students pursuing an Associate of Science (A.S.) program in any other discipline should contact the Office of Undergraduate Studies, SVC 2002, (813) 974-4051, for information regarding course transferability and degree articulation.

Completion of the following State Mandated Common Course Prerequisites (or equivalents) with a grade of C- or higher in each course and an overall 2.0 GPA:

- *ACG X021 or ACG X022 Financial Accounting or (ACG X001 & ACG X011)
- *ACG X071 Managerial Accounting or ACG X301
- CGS X100 Computers in Business or CGS X100C or CGS X530 or CGS X570 or CGS X060 or CGS X531 or CGS X000 or ISM X000
- ECO X013 Principles of Macroeconomics
- ECO X023 Principles of Microeconomics
- MAC X233 Elementary Calculus or MAC X230
- STA X023 Introductory Statistics or QMB X100 or STA X122

*Accounting majors must earn a C not C- in ACG 2021 & ACG 2071

REQUIREMENTS FOR THE MAJOR IN ADVERTISING

REQUIRED SUPPORTING COURSES FOR THE MAJOR: 3 HOURS

The following courses are prerequisite and supporting courses for this major. They are required for the major, but are not counted in the total hours for this major. The degree will not be awarded if these courses have not been taken by the end of the student’s final semester.

The following course is a prerequisite and supporting course for this major. It is required for the major, but not counted in the total hours for this major. The degree will not be awarded if this course has not been taken by the end of the student's final semester.

- MMC 3602 Mass Communications and Society

TOTAL MAJOR HOURS: 36

MAJOR REQUIREMENTS FOR THE B.A. OR B.S. DEGREE:

MAJOR CORE (23 HOURS)

Within the 120-semester hour program listed in the Business General Requirement section (including the state mandated common prerequisites), complete all courses listed below with a minimum grade of C, not C-, participate in a study abroad experience, and live in the Zimmerman Advertising Program (ZAP) Living Learning Community during their freshmen year.

Required Courses for Advertising major:

- ADV 3008 Introduction to Advertising
- ADV 3101 Advertising Creativity
- ADV 3300 Advertising Media Strategy
- ADV 4600 Advertising Management
- ADV 4800 Advertising Campaigns
- ADV 4940 Advertising Internship (two 1 credit experiences)
- MAR 3613 Marketing Research
- MAR 4503 Buyer Behavior
Major Electives (13 Hours)

Required Business Electives:

- MAR 3823 Marketing Management

Choose two courses (6 hours) from below:

- MAR 4933 Selected Topics in Marketing: Social Media Applications
- MAR XXXX Upper-Level Marketing Elective
  - MAR 3400 Professional Selling
  - MAR 3711 Sports Marketing
  - MAR 4156 International Marketing
  - MAR 4213 Logistics and Physical Distribution Management
  - MAR 4231 Retailing Management
  - MAR 4333 Promotion Management
  - MAR 4403 Sales Management
  - MAR 4453 Business to Business Marketing
  - MAR 4712 Healthcare Marketing
  - MAR 4824 Marketing Management Problems

Required Non-Business Electives:

- GEB 2935 Selected Topics in Business: Speaker Series (1 credit)
- SLS 2901 Academic Foundations Seminar (two 1 credit experiences)

GPA Requirements

At least a minimum of a C (not C-) grade must be earned in each course. An overall GPA of 2.0 is required in the major for graduation.

Residency Requirement

In the major, 15 of the 21 Advertising hours and 12 of the 17 Marketing hours must be taken in residency at USF Tampa.

Research Opportunities

All undergraduate students in any degree program can participate in undergraduate research. There are a number of options to receive academic credit for a mentored research experience and to have the experience show on the official transcript. Students who wish to enroll in an undergraduate research course should consult with their academic advisor to understand how the credit will apply towards the degree requirements. If no credit is needed, students may be eligible to enroll in the 0-credit IDS 2912, IDS 4914 or IDH 4910 courses. These courses will not impact degree credits or GPA but will show on an official transcript and document the experience. The Office of Undergraduate Research will assist students in understanding the various course options.

Internship Opportunities

Advertising students will be required to complete internships as part of their degree program.
ACCELERATED B.S./M.A. PROGRAM

Accelerated B.S. in Advertising and M.A. in Mass Communications with a concentration in Strategic Communication Management

This program allows B.S. majors in Advertising (Muma College of Business) to take graduate courses in the M.A. degree in Mass Communications with a concentration in Strategic Communication Management (College of Arts and Sciences), during their senior year. These shared credits will be applicable to the M.A. degree, thus accelerating the time to completion, with successful students able to earn the M.A. degree in two additional semesters beyond the completion of the B.S. degree.

ADVISING INFORMATION

Advising Services:

- Orientation for freshmen and transfer students.
- Academic advising and program information for pre-business students who have applied to the Muma College of Business and declared business as their intended major.
- Students who meet all Muma College of Business admission requirements.
- Evaluation of undergraduate transcripts for all declared and admitted business transfer students.
- Maintenance of academic advising records.
- Certification of graduation.

Location: C.H. Ferguson Hall (Business Administration Building) (BSN) 2102, (813) 974-4290 or schedule an advising appointment on-line: http://www.usf.edu/business/undergraduate/advising/.

Office Hours: 8am-6pm Monday-Thursday and 8am-4pm on Friday. Please refer to website for most current office hours information.

ADVERTISING FACULTY


B.S. - BUSINESS ANALYTICS AND INFORMATION SYSTEMS (BAIS)

(CIP = 52.1201)
TOTAL DEGREE HOURS: 120

http://www.usf.edu/business/undergraduate/major-mis.aspx

The Business Analytics and Information Systems (BAIS) major provides the skills and knowledge necessary to enter the rapidly changing world of business analytics and information systems. Potential career paths include data analyst, business intelligence analyst, business analyst, consulting, systems analyst, database administrator, project manager or a myriad of technology management roles in business.

LIMITED ACCESS

THIS MAJOR HAS ADDITIONAL ADMISSIONS REQUIREMENTS AS LISTED IN THIS SECTION.

Admission to the Muma College of Business is based upon availability of faculty and space within each discipline. The Muma College of Business 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 Muma College of Business must complete the required prerequisites for entering the College in addition to other related criteria listed below.

Students must satisfy the following criteria:
Minimum of 60 semester hours of college credit earned.

Minimum of a cumulative grade point average of 2.5 on all college-level work and a minimum of 2.0 on all credit attempted at USF, including any prior to renewal. NOTE: Beginning Fall 2013 the Muma College of Business will establish each fall a new minimum overall GPA required to satisfy the limited access GPA admission requirement. The minimum overall GPA will range between a 2.5 with a maximum required GPA of a 2.75. Students will be notified each fall as to the minimum entrance GPA required for the following fall semester. Notification will occur through Canvas and updated at the following link: http://www.usf.edu/business/undergraduate/requirements-general.aspx.

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.

A minimum score of 550 on paper and pencil or 213 on computerized TOEFL is required, when applicable.

STATE MANDATED COMMON COURSE PREREQUISITES

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 state or 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 state or 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 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. 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 Muma 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 Muma College of Business and prepare a program plan for degree completion. Students transferring to the Muma College of Business with an A.S. in Business Administration may earn a major in Management only.

Florida College System students pursuing an Associate of Science (A.S.) program in any other discipline should contact the Office of Undergraduate Studies, SVC 2002, (813) 974-4051, for information regarding course transferability and degree articulation.

Completion of the following State Mandated Common Prerequisites (or equivalents) with a grade of C- or higher in each course and an overall 2.0 GPA:

- *ACG X021 Financial Accounting or ACG X022 or (ACG X001 & ACG X011)
- *ACG X071 Managerial Accounting or ACG X301
- CGS X100 Computers in Business or CGS X100C or CGS X530 or CGS X570 or CGS X060 or CGS X531 or CGS X000 or ISM X000 or CGS X518
- ECO X013 Principles of Macroeconomics
- ECO X023 Principles of Microeconomics
- MAC X233 Elementary Calculus or MAC X230 or MAC X311
- STA X023 Introductory Statistics or QMB X100 or STA X122

*Accounting majors must earn a C not C- in ACG 2021 & ACG 2071
REQUIREMENTS FOR THE MAJOR IN BUSINESS ANALYTICS AND INFORMATION SYSTEMS

TOTAL MAJOR HOURS: 24

MAJOR REQUIREMENTS FOR THE B.S. DEGREE:

MAJOR CORE (15 HOURS)

Within the 120-semester-hour program, students must complete a set of 6 required courses and 3 approved electives.

Students choose to enroll as either:

• a Business Analytics and Information Systems major or
• a Business Analytics and Information Systems major with a concentration in Cybersecurity or
• a Business Analytics and Information Systems major with a concentration in Healthcare Business

Students must have a 2.0 or higher GPA in the major; they can use grade forgiveness for only one upper-level course. 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. BAI majors must earn a "C" or higher (not C-) in ISM 3011 and the six required courses. At least 18 hours must be taken in residence at USF Tampa.

• ISM 3011 Information Systems in Organizations*
• ISM 3232 Business Application Development*
• ISM 4212 Database Design and Administration
• ISM 4402 Business Intelligence or ISM 4220 Business Data Communications**
• ISM 4300 Managing Information Resources

*ISM 3232 (Business Application Development) is recommended to be taken concurrently with ISM 3011 (Information Systems in Organizations).

**ISM 4402 is recommended for students interested in mainstream business analytics careers, while ISM 4220 is recommended for students interested in mainstream careers in Management Information Systems. Students can always take both these courses and have the second one count as an elective (see below).

MAJOR ELECTIVES (9 HOURS)

• ISM 4041 Global Cyber Ethics
• ISM 4141 Java Programming
• ISM 4153 Enterprise Resource Planning Systems
• ISM 4220 Business Data Communications**
• ISM 4234 Object-Oriented Design and Development
• ISM 4252 Mainframe Technologies
• ISM 4314 Project Management
• ISM 4323 Information Security and IT Risk Management
• ISM 4381 Information Systems for Healthcare Analytics
• ISM 4382 Global Information Systems
• ISM 4402 Business Intelligence**
• ISM 4432 Software Testing
• ISM 4480 Electronic Commerce Systems
ISM 4542 Statistical Programming for Business Analytics
ISM 4571 Cybersecurity Cases
ISM 4930 Selected Topics in MIS
ISM 4940 Business Analytics and Information Systems Internship
MAN 4505 Healthcare Operations Management

***No more than three hours of ISM 4950 (Independent Research) can be counted as MIS electives. (ISM 4905 (Independent Study) will not count as an elective.)

Students should see an advisor for a list of other approved upper-level area elective courses.

GPA REQUIREMENTS

Students must have a 2.0 or higher GPA in the major; they can use grade forgiveness for only one upper-level course. A grade point average of 2.0 or higher must be achieved in all major coursework at USF and an overall 2.0 GPA including transfer work.

GRADING REQUIREMENT

BAIS majors must earn a "C" or higher (not C-) in ISM 3011 and the five required Business Analytics and Information Systems (BA&IS) courses.

RESIDENCY REQUIREMENT

At least 18 hours must be taken in residence at USF Tampa.

RESEARCH OPPORTUNITIES

All undergraduate students in any degree program can participate in undergraduate research. There are a number of options to receive academic credit for a mentored research experience and to have the experience show on the official transcript. Students who wish to enroll in an undergraduate research course should consult with their academic advisor to understand how the credit will apply towards the degree requirements. If no credit is needed, students may be eligible to enroll in the 0-credit IDS 2912, IDS 4914 or IDH 4910 courses. These courses will not impact degree credits or GPA but will show on an official transcript and document the experience. The Office of Undergraduate Research will assist students in understanding the various course options.

INTERNSHIP OPPORTUNITIES

It is strongly recommended that Business Analytics and Information Systems students take an internship course (ISM 4940) as part of their plan of study.

ACCELERATED B.S/M.S. PROGRAM

Accelerated B.S. in Business Analytics and Information Systems and M.S. in Business Analytics and Information Systems

The goal of the USF Muma College of Business integrated undergraduate-graduate program in BAIS/BAI is to provide outstanding undergraduate students an option to complete the B.S. undergraduate degree in BAIS and the M.S. graduate degree in BAI 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 BAI 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.

ADVISING INFORMATION

Advising Services:

- Orientation for freshmen and transfer students.
- Academic advising and program information for pre-business students who have applied to the Muma College of Business and declared business as their intended major.
- Students who meet all Muma College of Business admission requirements.
MUMA COLLEGE OF BUSINESS

UNIVERSITY OF SOUTH FLORIDA 2019-20 UNDERGRADUATE CATALOG

- Evaluation of undergraduate transcripts for all declared and admitted business transfer students.
- Maintenance of academic advising records.
- Certification of graduation.

Location: C.H. Ferguson Hall (Business Administration Building) (BSN) 2102, (813) 974-4290 or schedule an advising appointment on-line: http://www.usf.edu/business/undergraduate/advising/.

Office Hours: 8am-6pm Monday-Thursday and 8am-4pm on Friday. Please refer to website for most current office hours information.

BUSINESS ANALYTICS AND INFORMATION SYSTEMS FACULTY

Chairperson: M. Agrawal; Professor Emeritus: J.E. Blanton; Professors: M. Agrawal; A. Bhattacherjee, K. Chari, G. de Veerde; T.G. Gill, A.R. Hevner (Citigroup/Hidden River Endowed Chair), W. Jank (Anderson Professor of Global Management); B. Padmanabhan; Associate Professors: D.J. Berndt, J. Jones, B. Padmanabhan (Anderson Professor of Global Management), T.L. Sincich, R.P. Will; Assistant Professor: K. Dutta; S. Shivendu; H. Zhang; Instructors: A. Athienitis; D. Conway; C. Daniel; M. Dummeldinger, M. Mullarkey; R. Satterfield, B. Warner, W.W. Whitlock.

CYBERSECURITY (CYBC) CONCENTRATION

TOTAL DEGREE HOURS: 120

The Cybersecurity concentration in Business Analytics and Information Systems focuses on the growing need to prepare students for successful careers in the information security field.

STATE MANDATED COMMON COURSE PREREQUISITES

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 state or 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 state or 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 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. 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 Muma 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 Muma College of Business and prepare a program plan for degree completion. Students transferring to the Muma College of Business with an A.S. in Business Administration may earn a major in Management only.

Florida College System students pursuing an Associate of Science (A.S.) program in any other discipline should contact the Office of Undergraduate Studies, SVC 2002, (813) 974-4051, for information regarding course transferability and degree articulation.

Completion of the following State Mandated Common Prerequisites (or equivalents) with a grade of C- or higher in each course and an overall 2.0 GPA:

- *ACG X021/ACG X022 Financial Accounting (or ACG X001 & ACG X011)
- *ACG X071 Managerial Accounting (or X301)
- CGS X100 Computers in Business (or acceptable substitute, i.e., CGS X100C, CGS X530, CGS X570, CGS X531, CGS X000, MAN X812)
- ECO X013 Principles of Macroeconomics
REQUIREMENTS FOR THE CONCENTRATION IN CYBERSECURITY

TOTAL MAJOR HOURS: 24

MAJOR REQUIREMENTS FOR THE B.S. DEGREE:

MAJOR CORE - 15 HOURS

Required Business Analytics and Information Systems Courses (15 credit hours):

- ISM 3011 Information Systems in Organizations*
- ISM 3232 Business Application Development*
- ISM 4212 Database Design and Administration
- ISM 4300 Managing Information Resources
- ISM 4402 Business Intelligence or ISM 4220 Business Data Communications**

*ISM 3232 (Business Application Development) is recommended to be taken concurrently with ISM 3011 (Information Systems in Organizations).

**ISM 4402 is recommended for students interested in mainstream business analytics careers, while ISM 4220 is recommended for students interested in mainstream careers in Management Information Systems. Students can always take both these courses and have the second one count as an elective (see below).

MAJOR CORE (3 HOURS)

A student may choose to major in Business Analytics and Information Systems only or may choose to major in Business Analytics and Information Systems with a concentration in Cybersecurity.

Required Cybersecurity Concentration Course (3 credit hours):

- ISM 4323 Information Security and IT Risk Management

MAJOR ELECTIVES (6 HOURS)

Choose six (6) credit hours from the following Business Analytics and Information Systems elective courses:

- ISM 4220 Business Data Communications***
- ISM 4402 Business Intelligence***
- ISM 4041 Global Cyber Ethics
- ISM 4432 Software Testing
- ISM 4571 Cybersecurity Cases
- ISM 4940 Business Analytics and Information Systems Internship

***If these courses are used to satisfy the major requirements, they cannot be used to fulfill the elective requirements. Students should see an advisor for a list of other approved upper-level area elective courses.
GPA REQUIREMENTS

Students must have a 2.0 or higher GPA in the major; they can use grade forgiveness for only one upper-level course. A grade point average of 2.0 or higher must be achieved in all major coursework at USF and an overall 2.0 GPA including transfer work.

GRADING REQUIREMENT

Students in the major must earn a "C" or higher (not C-) in ISM 3011 and the six required courses.

RESIDENCY REQUIREMENT

At least 18 hours must be taken in residence at USF Tampa.

HEALTHCARE BUSINESS (HCBC) CONCENTRATION

TOTAL DEGREE HOURS: 120

The Healthcare Business concentration in Business Analytics and Information Systems focuses on the growing need to prepare students for successful careers in healthcare business field. With suitable selection of courses, the healthcare business concentration can serve as a pre-medical program.

STATE MANDATED COMMON COURSE PREREQUISITES

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 state or 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 state or 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 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. 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 Muma 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 Muma College of Business and prepare a program plan for degree completion. Students transferring to the Muma College of Business with an A.S. in Business Administration may earn a major in Management only.

Florida College System students pursuing an Associate of Science (A.S.) program in any other discipline should contact the Office of Undergraduate Studies, SVC 2002, (813) 974-4051, for information regarding course transferability and degree articulation.

Completion of the following State Mandated Common Prerequisites (or equivalents) with a grade of C- or higher in each course and an overall 2.0 GPA:

- "ACG X021/ACG X022 Financial Accounting (or ACG X001 & ACG X011)
- "ACG X071 Managerial Accounting (or X301)
- CGS X100 Computers in Business (or acceptable substitute, i.e., CGS X100C, CGS X530, CGS X570, CGS X531, CGS X000, MAN X812)
- ECO X013 Principles of Macroeconomics
- ECO X023 Principles of Microeconomics
- MAC X233 Elementary Calculus or MAC 2230
REQUIREMENTS FOR THE CONCENTRATION IN HEALTHCARE BUSINESS

TOTAL MAJOR HOURS: 24

MAJOR REQUIREMENTS FOR THE B.S. DEGREE:

MAJOR CORE - 15 HOURS

Required Business Analytics and Information Systems Courses (15 credit hours):

- ISM 3011 Information Systems in Organizations*
- ISM 3232 Business Application Development*
- ISM 4212 Database Design and Administration
- ISM 4300 Managing Information Resources
- ISM 4402 Business Intelligence or ISM 4220 Business Data Communications**

*ISM 3232 (Business Application Development) is recommended to be taken concurrently with ISM 3011 (Information Systems in Organizations).

**ISM 4402 is recommended for students interested in mainstream business analytics careers, while ISM 4220 is recommended for students interested in mainstream careers in Management Information Systems. Students can always take both these courses and have the second one count as an elective (see below).

MAJOR CORE (3 HOURS)

A student may choose to major in Business Analytics and Information Systems only or may choose to major in Business Analytics and Information Systems with a concentration in Healthcare Business.

Required Healthcare Business Concentration Course (3 credit hours):

- ISM 4381 Information Systems for Healthcare Analytics

MAJOR ELECTIVES (6 HOURS)

Choose six (6) credit hours from the following elective courses:

- BCH 3053 General Biochemistry
- ISM 4402 Business Intelligence***
- ISM 4542 Statistical Programming for Business Analytics
- ISM 4940 Business Analytics and Information Systems Internship
- LIS 4477 Clinical Decision Support
- MAN 4505 Healthcare Operations Management

***If this course is used to satisfy the major requirements, it cannot be used to fulfill the elective requirements.

+Internship location should be in a healthcare related field

Students should see an advisor for a list of other approved upper-level area elective courses.

GPA REQUIREMENTS

Students must have a 2.0 or higher GPA in the major; they can use grade forgiveness for only one upper-level course. A grade point average of 2.0 or higher must be achieved in all major coursework at USF and an overall 2.0 GPA including transfer work.
GRADING REQUIREMENT

Students in the major must earn a "C" or higher (not C-) in ISM 3011 and the six required courses.

RESIDENCY REQUIREMENT

At least 18 hours must be taken in residence at USF Tampa.

B.S. - FINANCE (FIN)

(CIP = 52.0801)
TOTAL DEGREE HOURS: 120

http://www.usf.edu/business/undergraduate/finance/

The Finance major provides a broad-based, analytical program for students anticipating a career in the management of both large and small organizations. Finance provides a good background for students seeking general careers in business. Finance majors can elect to take courses in the following areas that prepare them for entry and advanced careers in: financial management of corporations, management of financial institutions, investments, financial services, insurance, and real estate. In addition, the program in Finance is designed to provide the skills required by students earning degrees in other business disciplines and by students who seek professional degrees in areas such as law and public administration. The Finance program offers courses that enable the graduate to identify and solve problems in the acquisition and allocation of funds by organizations in the public and private sectors in domestic and international settings. It provides the background necessary for managing wealth in a risky environment. Finance relies on an interdisciplinary approach that draws on economic theory, accounting, information systems, and the quantitative decision frameworks of statistics and mathematics. The major is designed to ensure that graduates are familiar with the tools of financial decision making and that they possess the skills to stay abreast of the developments in the field. Finance graduates will understand the functions and operations of financial markets, become familiar with computer applications in finance, and know how to access and utilize financial information. Course content is designed to provide majors with an appreciation of cooperative work skills and to enhance their verbal and written communication skills.

LIMITED ACCESS

THIS MAJOR HAS ADDITIONAL ADMISSIONS REQUIREMENTS AS LISTED IN THIS SECTION.

Admission to the Muma College of Business is based upon availability of faculty and space within each discipline. The Muma College of Business 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 Muma College of Business must complete the required prerequisites for entering the College in addition to other related criteria listed below.

Students must satisfy the following criteria:

- Minimum of 60 semester hours of college credit earned.
- Minimum of a cumulative grade point average of 2.5 on all college-level work and a minimum of 2.0 on all credit attempted at USF, including any prior to renewal. NOTE: Beginning Fall 2013 the Muma College of Business will establish each fall a new minimum overall GPA required to satisfy the limited access GPA admission requirement. The minimum overall GPA will range between a 2.5 with a maximum required GPA of a 2.75. Students will be notified each fall as to the minimum entrance GPA required for the following fall semester. Notification will occur through Canvas and updated at the following link: http://www.usf.edu/business/undergraduate/requirements-general.aspx.
- 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.
- A minimum score of 550 on paper and pencil or 213 on computerized TOEFL is required, when applicable.
The Finance department has an additional admission requirement beyond the entry requirements for the Muma College of Business. Students are required to:

- Pass FIN 3403 with a minimum grade of C, not C-, with no more than two (2) attempts. “W” grades count as an attempt.

**STATE MANDATED COMMON COURSE PREREQUISITES**

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 state and 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 state and 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 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. 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 Muma 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 Muma College of Business and prepare a program plan for degree completion. Students transferring to the Muma College of Business with an A.S. in Business Administration may earn a major in Management only.

Florida College System students pursuing an Associate of Science (A.S.) program in any other discipline should contact the Office of Undergraduate Studies, SVC 2002, (813) 974-4051, for information regarding course transferability and degree articulation.

Completion of the following State Mandated Common Prerequisites (or equivalents) with a grade of C- or higher in each course and an overall 2.0 GPA:

- *ACG X021 or ACG X022 Financial Accounting or (ACG X001 & ACG X011)
- *ACG X071 Managerial Accounting or ACG X301
- CGS X100 Computers in Business or CGS X100C or CGS X530 or CGS X570 or CGS X060 or CGS X531 or CGS X000 or ISM X000 or CGS X518
- ECO X013 Principles of Macroeconomics
- ECO X023 Principles of Microeconomics
- MAC X233 Elementary Calculus or MAC X230
- STA X023 Introductory Statistics or QMB X100 or STA X122
- *Accounting majors must earn a C not C- in ACG 2021 & ACG 2071
REQUIREMENTS FOR THE MAJOR IN FINANCE

TOTAL MAJOR HOURS: 21

MAJOR REQUIREMENTS FOR THE B.S. DEGREE:

MAJOR CORE (9 HOURS)

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 21 hours of upper-level finance courses beyond FIN 3403.

Students choose to enroll as either:

- a Finance major or
- a Finance major with a concentration in Asset Management or
- a Finance major with a concentration in Corporate Finance or
- a Finance major with a concentration in Real Estate
- FIN 4453 Financial Modeling and Analytics
- FIN 4504 Principles of Investments
- FIN 4443 Financial Policies and Strategies*

*FIN 4443 is a capstone course that should be taken in the final semester of the major (or as close as possible).

MAJOR ELECTIVES (12 HOURS)

Four upper-level Finance electives

Finance electives can be selected from among those 3000- and 4000-level classes that have FIN, REE, and RMI prefixes. At least two electives 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.

- FIN 3144 Financial Planning
- FIN 3233 Money and Banking
- FIN 3604 International Finance
- FIN 4128 Financial Planning Process
- FIN 4303 Financial Institutions and Markets
- FIN 4412 Working Capital Management
- FIN 4414 Advanced Corporate Finance
- FIN 4461 Financial Statement Analysis
- FIN 4514 Advanced Investment Analysis and Management
- FIN 4533 Financial Options & Futures
- FIN 4560 Applied Securities Analysis
- FIN 4940 Finance Internship
- REE 3043 Real Estate Decision Making

GPA REQUIREMENTS

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.
GRADING REQUIREMENT
Students are required to earn a C- or higher in all finance courses that are counted toward the major requirements.

RESIDENCY REQUIREMENT
At least 15 hours must be taken in residence at USF Tampa.

RESEARCH OPPORTUNITIES
All undergraduate students in any degree program can participate in undergraduate research. There are a number of options to receive academic credit for a mentored research experience and to have the experience show on the official transcript. Students who wish to enroll in an undergraduate research course should consult with their academic advisor to understand how the credit will apply towards the degree requirements. If no credit is needed, students may be eligible to enroll in the 0-credit IDS 2912, IDS 4914 or IDH 4910 courses. These courses will not impact degree credits or GPA but will show on an official transcript and document the experience. The Office of Undergraduate Research will assist students in understanding the various course options.

INTERNSHIP OPPORTUNITIES
It is recommended that Finance students participate in an internship course (FIN 4940) as part of their plan of study. This course is offered on an S/U basis only.

ADVISING INFORMATION
Advising Services:
- Orientation for freshmen and transfer students.
- Academic advising and program information for pre-business students who have applied to the Muma College of Business and declared business as their intended major.
- Students who meet all Muma College of Business admission requirements.
- Evaluation of undergraduate transcripts for all declared and admitted business transfer students.
- Maintenance of academic advising records.
- Certification of graduation.

Location: C.H. Ferguson Hall (Business Administration Building) (BSN) 2102, (813) 974-4290 or schedule an advising appointment on-line: http://www.usf.edu/business/undergraduate/advising/.
Office Hours: 8am-6pm Monday-Thursday and 8am-4pm on Friday. Please refer to website for most current office hours information.

FINANCE FACULTY
ASSET MANAGEMENT (FIAM) CONCENTRATION

TOTAL DEGREE HOURS: 120

Students wishing to pursue a career in asset management are encouraged to pursue this concentration.

LIMITED ACCESS

THIS CONCENTRATION HAS ADDITIONAL ADMISSIONS REQUIREMENTS AS LISTED IN THIS SECTION.

Admission to the Muma College of Business is based upon availability of faculty and space within each discipline. The Muma College of Business 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 Muma College of Business must complete the required prerequisites for entering the College in addition to other related criteria listed below.

Students must satisfy the following criteria:

- Minimum of 60 semester hours of college credit earned.
- Minimum of a cumulative grade point average of 2.5 on all college-level work and a minimum of 2.0 on all credit attempted at USF, including any prior to renewal. NOTE: Beginning Fall 2013 the Muma College of Business will establish each fall a new minimum overall GPA required to satisfy the limited access GPA admission requirement. The minimum overall GPA will range between a 2.5 with a maximum required GPA of a 2.75. Students will be notified each fall as to the minimum entrance GPA required for the following fall semester. Notification will occur through Canvas and updated at the following link: http://www.usf.edu/business/undergraduate/requirements-general.aspx.
- 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.
- A minimum score of 550 on paper and pencil or 213 on computerized TOEFL is required, when applicable.

STATE MANDATED COMMON COURSE PREREQUISITES

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 state and 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 state and 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 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. 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 Muma 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 Muma College of Business and prepare a program plan for degree completion. Students transferring to the Muma College of Business with an A.S. in Business Administration may earn a major in Management only.

Florida College System students pursuing an Associate of Science (A.S.) program in any other discipline should contact the Office of Undergraduate Studies, SVC 2002, (813) 974-4051, for information regarding course transferability and degree articulation.
Completion of the following State Mandated Common Prerequisites (or equivalents) with a grade of C- or higher in each course and an overall 2.0 GPA:

- *ACG X021 or ACG X022 Financial Accounting or (ACG X001 & ACG X011)
- *ACG X071 Managerial Accounting (or ACG X301)
- CGS X100 Computers in Business (or acceptable substitute, i.e., CGS X100C, CGS X530, CGS X570, CGS X060, CGS X531, CGS X000, ISM X000, CGS X518)
- ECO X013 Principles of Macroeconomics
- ECO X023 Principles of Microeconomics
- MAC X233 Elementary Calculus or MAC X230
- STA X023 Introductory Statistics or QMB X100 or STA X122 (although STA X023 and QMB X100 are preferred).

*Accounting majors must earn a C not C- in ACG 2021 & ACG 2071

REQUIREMENTS FOR THE CONCENTRATION IN ASSET MANAGEMENT

TOTAL MAJOR HOURS: 21

MAJOR REQUIREMENTS FOR THE B.S. DEGREE:

MAJOR CORE - 9 HOURS

- FIN 4453 Financial Modeling and Analytics
- FIN 4504 Principles of Investments
- FIN 4443 Financial Policies and Strategies*

*FIN 4443 is a capstone course that should be taken in the final semester of the major (or as close as possible).

MAJOR Core (12 Hours)

A student may choose to major in Finance only or may choose to major in Finance with a concentration in Asset Management.

Choose any four (4) courses below:

- FIN 4303 Financial Institutions and Markets
- FIN 4461 Financial Statement Analysis
- FIN 4514 Advanced Investment Analysis and Management
- FIN 4560 Applied Securities Analysis
- FIN 4934 Selected Topics in Finance: Advance Financial Risk Management
- FIN 4940 Finance Internship

GPA REQUIREMENTS

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.

GRADING REQUIREMENT

Students are required to earn a C- or higher in all finance courses that are counted toward the major requirements.

RESIDENCY REQUIREMENT

At least 15 hours must be taken in residence at USF Tampa.
CORPORATE FINANCE (FICF) CONCENTRATION

TOTAL DEGREE HOURS: 120

Students wishing to pursue a career in corporate finance are encouraged to pursue this concentration.

LIMITED ACCESS

THIS CONCENTRATION HAS ADDITIONAL ADMISSIONS REQUIREMENTS AS LISTED IN THIS SECTION.

Admission to the Muma College of Business is based upon availability of faculty and space within each discipline. The Muma College of Business 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 Muma College of Business must complete the required prerequisites for entering the College in addition to other related criteria listed below.

Students must satisfy the following criteria:

- Minimum of 60 semester hours of college credit earned.
- Minimum of a cumulative grade point average of 2.5 on all college-level work and a minimum of 2.0 on all credit attempted at USF, including any prior to renewal. NOTE: Beginning Fall 2013 the Muma College of Business will establish each fall a new minimum overall GPA required to satisfy the limited access GPA admission requirement. The minimum overall GPA will range between a 2.5 with a maximum required GPA of a 2.75. Students will be notified each fall as to the minimum entrance GPA required for the following fall semester. Notification will occur through Canvas and updated at the following link: http://www.usf.edu/business/undergraduate/requirements-general.aspx.
- 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.
- A minimum score of 550 on paper and pencil or 213 on computerized TOEFL is required, when applicable.

STATE MANDATED COMMON COURSE PREREQUISITES

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 state and 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 state and 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 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. 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 Muma 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 Muma College of Business and prepare a program plan for degree completion. Students transferring to the Muma College of Business with an A.S. in Business Administration may earn a major in Management only.

Florida College System students pursuing an Associate of Science (A.S.) program in any other discipline should contact the Office of Undergraduate Studies, SVC 2002, (813) 974-4051, for information regarding course transferability and degree articulation.
Completion of the following State Mandated Common Prerequisites (or equivalents) with a grade of C- or higher in each course and an overall 2.0 GPA:

- *ACG X021 or ACG X022 Financial Accounting or (ACG X001 & ACG X011)
- *ACG X071 Managerial Accounting (or ACG X301)
- CGS X100 Computers in Business (or acceptable substitute, i.e., CGS X100C, CGS X530, CGS X570, CGS X060, CGS X531, CGS X000, ISM X000, CGS X518)
- ECO X013 Principles of Macroeconomics
- ECO X023 Principles of Microeconomics
- MAC X233 Elementary Calculus or MAC X230
- STA X023 Introductory Statistics or QMB X100 or STA X122 (although STA X023 and QMB X100 are preferred).

*Accounting majors must earn a C not C- in ACG 2021 & ACG 2071

REQUIREMENTS FOR THE CONCENTRATION IN CORPORATE FINANCE

TOTAL MAJOR HOURS: 21

MAJOR REQUIREMENTS FOR THE B.S. DEGREE:

MAJOR CORE - 9 HOURS

- FIN 4453 Financial Modeling and Analytics
- FIN 4504 Principles of Investments
- FIN 4443 Financial Policies and Strategies*

*FIN 4443 is a capstone course that should be taken in the final semester of the major (or as close as possible).

MAJOR CORE (12 HOURS)

A student may choose to major in Finance only or may choose to major in Finance with a concentration in Corporate Finance.

- FIN 4414 Advanced Corporation Finance
- Choose any three (3) courses below:
  - ACG 3103 Intermediate Financial Accounting I
  - ACG 3113 Intermediate Financial Accounting II
  - FIN 3604 International Finance
  - FIN 4412 Working Capital Management
  - FIN 4461 Financial Statement Analysis
  - FIN 4940 Finance Internship

GPA REQUIREMENTS

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.

GRADING REQUIREMENT

Students are required to earn a C- or higher in all finance courses that are counted toward the major requirements.

RESIDENCY REQUIREMENT

At least 15 hours must be taken in residence at USF Tampa.
REAL ESTATE (FIRE) CONCENTRATION

TOTAL DEGREE HOURS: 120

LIMITED ACCESS

THIS CONCENTRATION HAS ADDITIONAL ADMISSIONS REQUIREMENTS AS LISTED IN THIS SECTION.

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Students must satisfy the following criteria:

- Minimum of 60 semester hours of college credit earned.
- Minimum of a cumulative grade point average of 2.5 on all college-level work and a minimum of 2.0 on all credit attempted at USF, including any prior to renewal. NOTE: Beginning Fall 2013 the Muma College of Business will establish each fall a new minimum overall GPA required to satisfy the limited access GPA admission requirement. The minimum overall GPA will range between a 2.5 with a maximum required GPA of a 2.75. Students will be notified each fall as to the minimum entrance GPA required for the following fall semester. Notification will occur through Canvas and updated at the following link: http://www.usf.edu/business/undergraduate/requirements-general.aspx.
- 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.
- A minimum score of 550 on paper and pencil or 213 on computerized TOEFL is required, when applicable.

STATE MANDATED COMMON COURSE PREREQUISITES

Students wishing to pursue a career in asset management are encouraged to pursue this concentration. A student may choose to major in Finance only or may choose to major in Finance with a concentration in Asset Management.

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 state and 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 state and 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 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. 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 Muma 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 Muma College of Business and prepare a program plan for degree completion. Students transferring to the Muma College of Business with an A.S. in Business Administration may earn a major in Management only.

Florida College System students pursuing an Associate of Science (A.S.) program in any other discipline should contact the Office of Undergraduate Studies, SVC 2002, (813) 974-4051, for information regarding course transferability and degree articulation.
Completion of the following State Mandated Common Prerequisites (or equivalents) with a grade of C- or higher in each course and an overall 2.0 GPA:

- *ACG X021 or ACG X022 Financial Accounting or (ACG X001 & ACG X011)
- *ACG X071 Managerial Accounting (or ACG X301)
- CGS X100 Computers in Business (or acceptable substitute, i.e., CGS X100C, CGS X530, CGS X570, CGS X060, CGS X531, CGS X000, ISM X000, CGS X518)
- ECO X013 Principles of Macroeconomics
- ECO X023 Principles of Microeconomics
- MAC X233 Elementary Calculus or MAC X230
- STA X023 Introductory Statistics or QMB X100 or STA X122 (although STA X023 and QMB X100 are preferred).

*Accounting majors must earn a C not C- in ACG 2021 & ACG 2071

REQUIREMENTS FOR THE CONCENTRATION IN REAL ESTATE

TOTAL MAJOR HOURS: 21

MAJOR REQUIREMENTS FOR THE B.S. DEGREE:

MAJOR CORE - 9 HOURS

- FIN 4453 Financial Modeling and Analytics
- FIN 4504 Principles of Investments
- FIN 4443 Financial Policies and Strategies*

*FIN 4443 is a capstone course that should be taken in the final semester of the major (or as close as possible).

MAJOR CORE (12 HOURS)

A student may choose to major in Finance only or may choose to major in Finance with a concentration in Real Estate.

- REE 3043 Real Estate Decision Making
- REE 4940C Real Estate Internship
- Choose any two (2) courses below:
  - FIN 3144 Financial Planning Fundamentals
  - FIN 4303 Financial Institutions & Markets
  - FIN 4461 Financial Statement Analysis
  - RMI 3011 Principles of Insurance

GPA REQUIREMENTS

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.

GRADING REQUIREMENT

Students are required to earn a C- or higher in all finance courses that are counted toward the major requirements.
RESIDENCY REQUIREMENT
At least 15 hours must be taken in residence at USF Tampa.

INTERNSHIP OPPORTUNITIES
It is recommended that Finance students participate in an internship course (FIN 4940) as part of their plan of study. This course is offered on an S/U basis only.

ADVISING INFORMATION
Advising Services:
- Orientation for freshmen and transfer students.
- Academic advising and program information for pre-business students who have applied to the Muma College of Business and declared business as their intended major.
- Students who meet all Muma College of Business admission requirements.
- Evaluation of undergraduate transcripts for all declared and admitted business transfer students.
- Maintenance of academic advising records.
- Certification of graduation.

Location: C.H. Ferguson Hall (Business Administration Building) (BSN) 2102, (813) 974-4290 or schedule an advising appointment on-line: http://www.usf.edu/business/undergraduate/advising/.

Office Hours: 8am-6pm Monday-Thursday and 8am-4pm on Friday. Please refer to website for most current office hours information.

B.S. - GENERAL BUSINESS STUDIES (GBAS)
(CIP = 52.0101 - TRACK 1 OF 2)
TOTAL DEGREE HOURS: 120
http://www.usf.edu/business/undergraduate/general/

The General Business Studies 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.

LIMITED ACCESS
THIS MAJOR HAS ADDITIONAL ADMISSIONS REQUIREMENTS AS LISTED IN THIS SECTION.

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Students must satisfy the following criteria:

- Minimum of 60 semester hours of college credit earned.
- Minimum of a cumulative grade point average of 2.5 on all college-level work and a minimum of 2.0 on all credit attempted at USF, including any prior to renewal. NOTE: Beginning Fall 2013 the Muma College of Business will establish each fall a new minimum overall GPA required to satisfy the limited access GPA admission requirement. The minimum overall GPA will range between a 2.5 with a maximum required GPA of a 2.75. Students will be notified each fall as to the minimum entrance GPA required for the following fall semester. Notification will occur through Canvas and updated at the following link: http://www.usf.edu/business/undergraduate/requirements-general.aspx.
- 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.
- A minimum score of 550 on paper and pencil or 213 on computerized TOEFL is required, when applicable.

STATE MANDATED COMMON COURSE PREREQUISITES

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.

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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 Muma College of Business and prepare a program plan for degree completion. Students transferring to the Muma College of Business with an A.S. in Business Administration may earn a major in Management only.

Florida College System students pursuing an Associate of Science (A.S.) program in any other discipline should contact the Office of Undergraduate Studies, SVC 2002, (813) 974-4051, for information regarding course transferability and degree articulation.

Completion of the following State Mandated Common Prerequisites (or equivalents) with a grade of C- or higher in each course and an overall 2.0 GPA:

- *ACG X021 or ACG X022 Financial Accounting or (ACG X001 & ACG X011)
- *ACG X071 Managerial Accounting or ACG X301
- CGS X100 Computers in Business or CGS X100C or CGS X530 or CGS X570 or CGS X060 or CGS X531 or CGS X000 or ISM X000 or CGS X518
- ECO X013 Principles of Macroeconomics
- ECO X023 Principles of Microeconomics
- MAC X233 Elementary Calculus or MAC X230
- STA X023 Introductory Statistics or QMB X100 or STA X122

*Accounting majors must earn a C not C- in ACG 2021 & ACG 2071
REQUIREMENTS FOR THE MAJOR IN GENERAL BUSINESS STUDIES

TOTAL MAJOR HOURS: 18

MAJOR REQUIREMENTS FOR THE B.S. DEGREE:

MAJOR CORE (9 HOURS)

Within the 120-semester-hours program, a minimum of 18 hours of upper-level coursework must be earned. Students must complete three (3) upper-level courses from at least one of the following Business areas: Accounting, Business Analytics and Information Systems, Entrepreneurship, Finance, Management, or Marketing.

- Accounting Area: Nine (9) credit hours of earned ACG 3000-4999 coursework.
- Business Analytics and Information Systems Area: Nine (9) credit hours of earned ISM 3000-4999 coursework.
- Entrepreneurship Area: Nine (9) credit hours of earned ENT 3000-4999 coursework.
- Finance Area: Nine (9) credit hours of earned FIN 3000-4999 coursework.
- Management Area: Nine (9) credit hours of earned MAN 3000-4999 coursework.
- Marketing Area: Nine (9) credit hours of earned MKT 3000-4999 coursework.

MAJOR ELECTIVES (9 HOURS)

Non-Business Course Electives:

As part of the General Business Studies major, students may choose to apply three (3) upper-level courses outside the Business area. The upper-level courses do not have to be from a specific discipline, however only two (2) of the three (3) courses may fulfill other degree requirements.

GPA REQUIREMENTS

A GPA of 2.0 or higher must be achieved in non-Business coursework applied to the major. Best attempts will be used when calculating the GPA.

GRADING REQUIREMENT

A grade of C- or higher is required for all Business and non-Business courses applied for the major core and electives.

RESIDENCY REQUIREMENT

Of the total nine (9) credit hours of major Business coursework, six (6) must be taken in residency at USF Tampa. Of the total nine (9) credit hours of elective coursework, six (6) must be taken in residency at USF Tampa.

RESEARCH OPPORTUNITIES

All undergraduate students in any degree program can participate in undergraduate research. There are a number of options to receive academic credit for a mentored research experience and to have the experience show on the official transcript. Students who wish to enroll in an undergraduate research course should consult with their academic advisor to understand how the credit will apply towards the degree requirements. If no credit is needed, students may be eligible to enroll in the 0-credit IDS 2912, IDS 4914 or IDH 4910 courses. These courses will not impact degree credits or GPA but will show on an official transcript and document the experience. The Office of Undergraduate Research will assist students in understanding the various course options.

INTERNSHIP OPPORTUNITIES

An academic internship would be beneficial, either in the major or interdisciplinary studies (IDS 3947).

ADVISING INFORMATION

Advising Services:
Orientation for freshmen and transfer students.

Academic advising and program information for pre-business students who have applied to the Muma College of Business and declared business as their intended major.

Students who meet all Muma College of Business admission requirements.

Evaluation of undergraduate transcripts for all declared and admitted business transfer students.

Maintenance of academic advising records.

Certification of graduation.

Location: C.H. Ferguson Hall (Business Administration Building) (BSN) 2102, (813) 974-4290 or schedule an advising appointment on-line: http://www.usf.edu/business/undergraduate/advising/.

Office Hours: 8am-6pm Monday-Thursday and 8am-4pm on Friday. Please refer to website for most current office hours information.

ACCOUNTING AND BUSINESS ANALYTICS AND INFORMATION SYSTEMS (GAA/GAI) CONCENTRATION

REQUIREMENTS FOR THE CONCENTRATION IN ACCOUNTING AND BUSINESS ANALYTICS AND INFORMATION SYSTEMS

TOTAL CONCENTRATION HOURS: 18

CONCENTRATION CORE (18 HOURS)

All required 12 credit hours of Accounting coursework must be taken in residence at USF Tampa. A grade of C (not C-) or better must be earned in each of the four upper-level Accounting courses taken. A GPA of 2.0 or higher must be achieved in all Accounting coursework. All attempts will be included in the GPA unless grade forgiveness has been used. Only one grade forgiveness may be used.

Nine hours of the required 12 credit hours of Business Analytics and Information Systems coursework must be taken in residence at USF Tampa. A GPA of 2.0 or higher must be achieved in all Business Analytics and Information Systems coursework.

Accounting Required Courses:

- ACG 3103 Intermediate Financial Accounting I*
- ACG 3341 Cost Accounting and Control I*
- ACG 3401 Accounting Information Systems
- TAX 4001 Concepts of Federal Income Taxation

* These courses must be taken in the same semester.

Business Analytics and Information Systems Required Courses:

- ISM 3113 Systems Analysis and Design
- ISM 4212 Database Design and Administration

Concentration Electives (6 hours)

Business Analytics and Information Systems Electives:

- 6 hours of approved MIS electives
  - ISM 3115 Business Informatics
  - ISM 3232 Business Application Development
  - ISM 3431 Operations and Supply Chain Processes
  - ISM 4041 Global Cyber Ethics
MUMA COLLEGE OF BUSINESS

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- ISM 4153 Enterprise Resource Planning Systems
- ISM 4213 Advanced Database Administration
- ISM 4220 Business Data Communications
- ISM 4233 Information System Interface Design
- ISM 4234 Object-Oriented Design and Development
- ISM 4252 Mainframe Technologies
- ISM 4300 Managing Information Resources
- ISM 4314 Project Management
- ISM 4323 Information Security and IT Risk Management
- ISM 4382 Global Information Systems
- ISM 4400 Decision Support Systems
- ISM 4402 Business Intelligence
- ISM 4432 Software Testing
- ISM 4480 Electronic Commerce Systems

GPA REQUIREMENTS

A GPA of 2.0 or higher must be achieved in all Accounting coursework. All attempts will be included in the GPA unless grade forgiveness has been used. Only one grade forgiveness may be used.

A GPA of 2.0 or higher must be achieved in all Business Analytics and Information Systems coursework.

GRADING REQUIREMENT

A grade of C (not C-) or better must be earned in each of the four upper-level Accounting courses taken.

RESIDENCY REQUIREMENT

All required 12 credit hours of Accounting coursework must be taken in residence at USF Tampa.

Nine hours of the required 12 credit hours of Business Analytics and Information Systems coursework must be taken in residence at USF Tampa.

ACCOUNTING AND ECONOMICS (GAA/GEC) CONCENTRATION

REQUIREMENTS FOR THE CONCENTRATION IN ACCOUNTING AND ECONOMICS

TOTAL CONCENTRATION HOURS: 18

CONCENTRATION CORE (12 HOURS)

All required 12 credit hours of Accounting coursework must be taken in residence at USF Tampa. A grade of C (not C-) or better must be earned in each of the four upper-level Accounting courses taken. A GPA of 2.0 or higher must be achieved in all Accounting coursework. All attempts will be included in the GPA unless grade forgiveness has been used. Only one grade forgiveness may be used.

Nine hours of the required 12 credit hours of Economics coursework must be taken in residence at USF Tampa. A GPA of 2.0 or higher must be achieved in all Economics coursework. All attempts will be included in the GPA unless grade forgiveness has been used.
Accounting Required Courses:

- ACG 3103 Intermediate Financial Accounting I*
- ACG 3341 Cost Accounting and Control I*
- ACG 3401 Accounting Information Systems
- TAX 4001 Concepts of Federal Income Taxation

* These courses must be taken in the same semester.

Concentration Electives (12 hours)

Economics Elective Courses - Grade of "C-" or higher is required for all Economics courses:

- 12 credit hours of upper-level Economics electives with ECO, ECS, ECP prefix; excluding QMB 3200
  
  - ECO 3101 Intermediate Price Theory
  - ECO 3203 Intermediate Macroeconomics
  - ECO 3622 American Economic History
  - ECO 3703 International Economics
  - ECO 4105 Advanced Price Theory
  - ECO 4270 Economic Growth
  - ECO 4303 History of Economic Thought
  - ECO 4323 Radical Political Economy
  - ECO 4400 Game Theory and Economic Applications
  - ECO 4401 Introduction to Mathematical Economics
  - ECO 4421 Introduction to Econometrics
  - ECO 4504 Public Finance
  - ECO 4704 International Trade and Policy
  - ECO 4713 International Macroeconomics
  - ECP 3125 Economics of Inequality
  - ECP 3201 Economics of Women and Work
  - ECP 3203 Labor Economics
  - ECP 3302 Environmental Economics
  - ECP 3403 Industrial Organization
  - ECP 3413 Economics of Regulation and Antitrust
  - ECP 3530 Economics of Health
  - ECP 3613 Urban Economics
  - ECP 3623 Regional Economics
  - ECP 3703 Managerial Economics
  - ECP 4006 Economics of Sport
  - ECP 4451 Law and Economics
  - ECP 4505 Economics of Crime
OECP 4510 Economics of Education
OECP 4704 Economics of Business Strategy
ECS 3013 Economic Development
ECS 4003 Comparative Economic Systems
ECS 4430 Economics of Latin America

GPA REQUIREMENTS
A GPA of 2.0 or higher must be achieved in all Accounting and Economics coursework. All attempts will be included in the GPA unless grade forgiveness has been used. Only one grade forgiveness may be used.

GRADING REQUIREMENT
A grade of C (not C-) or better must be earned in each of the four upper-level Accounting courses taken.

RESDENCY REQUIREMENT
All required 12 credit hours of Accounting coursework must be taken in residence at USF Tampa.
Nine hours of the required 12 credit hours of Economics coursework must be taken in residence at USF Tampa.

ACCOUNTING AND FINANCE (GAA/GFI) CONCENTRATION

REQUIREMENTS FOR THE CONCENTRATION IN ACCOUNTING AND FINANCE

TOTAL CONCENTRATION HOURS: 18

CONCENTRATION CORE (24 HOURS)
All required 12 credit hours of Accounting coursework must be taken in residence at USF Tampa. A grade of C (not C-) or better must be earned in each of the four upper-level Accounting courses taken. A GPA of 2.0 or higher must be achieved in all Accounting coursework. All attempts will be included in the GPA unless grade forgiveness has been used. Only one grade forgiveness may be used.
Nine hours of the required 12 credit hours of Finance coursework must be taken in residence at USF Tampa. A grade of C- or better must be earned in each of the required Finance courses counted for the minor. A GPA of 2.0 or higher must be achieved in all Finance coursework. All attempts will be included in the GPA unless grade forgiveness has been used.

Accounting Required Courses:
- ACG 3103 Intermediate Financial Accounting I*
- ACG 3341 Cost Accounting and Control I*
- ACG 3401 Accounting Information Systems
- TAX 4001 Concepts of Federal Income Taxation
* These courses must be taken in the same semester.

Finance Required Courses:
- FIN 4504 Principles of Investments
- FIN 4303 Financial Institutions and Markets
- FIN 4414 Advanced Corporation Finance
- FIN 4443 Financial Policies and Strategies*
*FIN 4443 is capstone course that should be taken in the final semester of the major (or as close as possible).
GPA REQUIREMENTS
A GPA of 2.0 or higher must be achieved in all Accounting and Finance coursework. All attempts will be included in the GPA unless grade forgiveness has been used. Only one grade forgiveness may be used.

GRADING REQUIREMENT
A grade of C (not C-) or better must be earned in each of the four upper-level Accounting courses taken.
A grade of C- or better must be earned in each of the required Finance courses counted for the minor.

RESIDENCY REQUIREMENT
All required 12 credit hours of Accounting coursework must be taken in residence at USF Tampa.
Nine hours of the required 12 credit hours of Finance coursework must be taken in residence at USF Tampa.

ACCOUNTING AND MARKETING (GAA/GMK) CONCENTRATION

TOTAL CONCENTRATION HOURS: 18

CONCENTRATION CORE (15 HOURS)
All required 12 credit hours of Accounting coursework must be taken in residence at USF Tampa. A grade of C (not C-) or better must be earned in each of the four upper-level Accounting courses taken. A GPA of 2.0 or higher must be achieved in all Accounting coursework. All attempts will be included in the GPA unless grade forgiveness has been used. Only one grade forgiveness may be used.

Nine hours of the required 12 credit hours of Marketing coursework must be taken in residence at USF Tampa. A grade of C or higher (not C-) is required in MAR 3023 Basic Marketing and all Marketing minor coursework. A GPA of 2.0 or higher must be achieved in all Marketing coursework.

Accounting Required Courses:
- ACG 3103 Intermediate Financial Accounting I*
- ACG 3341 Cost Accounting and Control I*
- ACG 3401 Accounting Information Systems
- TAX 4001 Concepts of Federal Income Taxation
* These courses must be taken in the same semester.

Marketing Required Courses:
- MAR 3823 Marketing Management

Concentration Electives (9 hours)
Marketing Elective Courses:
- Any three (3) upper-level Marketing courses with a MAR prefix (excluding MAR 4824)
  - MAR 3400 Professional Selling
  - MAR 3613 Market Research
  - MAR 3711 Sports Marketing
  - MAR 4156 International Marketing
  - MAR 4213 Logistics and Physical Distribution Management
  - MAR 4231 Retailing Management
  - MAR 4333 Promotion Management
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- MAR 4403 Sales Management
- MAR 4453 Business to Business Marketing
- MAR 4503 Buyer Behavior
- MAR 4712 Healthcare Marketing

GPA REQUIREMENTS
A GPA of 2.0 or higher must be achieved in all Accounting coursework. All attempts will be included in the GPA unless grade forgiveness has been used. Only one grade forgiveness may be used.

A GPA of 2.0 or higher must be achieved in all Marketing coursework.

GRADING REQUIREMENT
A grade of C (not C-) or better must be earned in each of the four upper-level Accounting courses taken.

A grade of C or higher (not C-) is required in MAR 3023 Basic Marketing and all Marketing coursework.

RESIDENCY REQUIREMENT
All required 12 credit hours of Accounting coursework must be taken in residence at USF Tampa.

Nine hours of the required 12 credit hours of Management coursework must be taken in residence at USF Tampa.

ACCOUNTING AND MANAGEMENT (GAA/GMN) CONCENTRATION

REQUIREMENTS FOR THE CONCENTRATION IN ACCOUNTING AND MANAGEMENT

TOTAL CONCENTRATION HOURS: 18

CONCENTRATION CORE (24 HOURS)

All required 12 credit hours of Accounting coursework must be taken in residence at USF Tampa. A grade of C (not C-) or better must be earned in each of the four upper-level Accounting courses taken. A GPA of 2.0 or higher must be achieved in all Accounting coursework. All attempts will be included in the GPA unless grade forgiveness has been used. Only one grade forgiveness may be used.

Nine hours of the required 12 credit hours of Management coursework must be taken in residence at USF Tampa. A GPA of 2.0 or higher must be achieved in all Management coursework.

Accounting Required Courses:
- ACG 3103 Intermediate Financial Accounting I*
- ACG 3341 Cost Accounting and Control I*
- ACG 3401 Accounting Information Systems
- TAX 4001 Concepts of Federal Income Taxation

* These courses must be taken in the same semester.

Management Required Courses:
- MAN 3240 Organizational Behavior Analysis
- MAN 3301 Human Resource Management
- MAN 4282 Organizational Assessment
- MAN 4737 Integrated Management Applications
GPA REQUIREMENTS

A GPA of 2.0 or higher must be achieved in all Accounting coursework. All attempts will be included in the GPA unless grade forgiveness has been used. Only one grade forgiveness may be used.

A GPA of 2.0 or higher must be achieved in all Management coursework.

GRADING REQUIREMENT

A grade of C (not C-) or better must be earned in each of the four upper-level Accounting courses taken.

RESIDENCY REQUIREMENT

All required 12 credit hours of Accounting coursework must be taken in residence at USF Tampa.

Nine hours of the required 12 credit hours of Management coursework must be taken in residence at USF Tampa.

ACCOUNTING AND ENTREPRENEURSHIP (GAA/GNT) CONCENTRATION

REQUIREMENTS FOR THE CONCENTRATION IN ACCOUNTING AND ENTREPRENEURSHIP

TOTAL CONCENTRATION HOURS: 18

CONCENTRATION CORE (24 HOURS)

All required 12 credit hours of Accounting coursework must be taken in residence at USF Tampa. A grade of C (not C-) or better must be earned in each of the four upper-level Accounting courses taken. A GPA of 2.0 or higher must be achieved in all Accounting coursework. All attempts will be included in the GPA unless grade forgiveness has been used. Only one grade forgiveness may be used.

A grade of C- or higher is required for all Entrepreneurship courses. A GPA of 2.0 or higher must be achieved in all Entrepreneurship coursework. All attempts will be included in the GPA unless grade forgiveness has been used. Nine hours of the required 12 credit hours of Entrepreneurship coursework must be taken in residence at USF Tampa.

Accounting Required Courses:
- ACG 3103 Intermediate Financial Accounting I*
- ACG 3341 Cost Accounting and Control I*
- ACG 3401 Accounting Information Systems
- TAX 4001 Concepts of Federal Income Taxation
* These courses must be taken in the same semester.

Entrepreneurship Required Courses:
- ENT 4014 New Venture Formation
- ENT 3613 Creativity and Innovation in Entrepreneurial Films or EIN 4200 Creativity in Technology
- Select two (2) courses from the following list:
  - ENT 4424 Fundamentals of Venture Capital and Private Equity
  - ENT 4024 Small Business Management - Entrepreneurship
  - MAN 4804 Small Business Management Counseling

GPA REQUIREMENTS

A GPA of 2.0 or higher must be achieved in all Accounting coursework. All attempts will be included in the GPA unless grade forgiveness has been used. Only one grade forgiveness may be used.

A GPA of 2.0 or higher must be achieved in all Entrepreneurship coursework. All attempts will be included in the GPA unless grade forgiveness has been used.
GRADING REQUIREMENT

A grade of C (not C-) or better must be earned in each of the four upper-level Accounting courses taken.

A grade of C- or higher is required for all Entrepreneurship courses.

RESIDENCY REQUIREMENT

All required 12 credit hours of Accounting coursework must be taken in residence at USF Tampa.

Nine hours of the required 12 credit hours of Entrepreneurship coursework must be taken in residence at USF Tampa.

BUSINESS ANALYTICS AND INFORMATION SYSTEMS AND ENTREPRENEURSHIP (GAI/GNT) CONCENTRATION

REQUIREMENTS FOR THE CONCENTRATION IN BUSINESS ANALYTICS AND INFORMATION SYSTEMS AND ENTREPRENEURSHIP

TOTAL CONCENTRATION HOURS: 18

CONCENTRATION CORE (18 HOURS)

Nine hours of the required 12 credit hours of Business Analytics and Information Systems coursework must be taken in residence at USF Tampa. A GPA of 2.0 or higher must be achieved in all Business Analytics and Information Systems coursework.

A grade of C- or higher is required for all Entrepreneurship courses. A GPA of 2.0 or higher must be achieved in all Entrepreneurship coursework. All attempts will be included in the GPA unless grade forgiveness has been used. Nine hours of the required 12 credit hours of Entrepreneurship coursework must be taken in residence at USF Tampa.

Business Analytics and Information Systems Required Courses:

- ISM 3113 Systems Analysis and Design
- ISM 4212 Database Design and Administration

Entrepreneurship Required Courses:

- ENT 4014 New Venture Formation
- ENT 3613 Creativity and Innovation in Entrepreneurial Films or EIN 4200 Creativity in Technology
- Select two (2) courses from the following list:
  - ENT 4424 Fundamentals of Venture Capital and Private Equity
  - ENT 4024 Small Business Management - Entrepreneurship
  - MAN 4804 Small Business Management Counseling

Concentration Electives (6 hours)

Business Analytics and Information Systems Electives:

- 6 hours of approved MIS electives
  - ISM 3115 Business Informatics
  - ISM 3232 Business Application Development
  - ISM 3431 Operations and Supply Chain Processes
  - ISM 4041 Global Cyber Ethics
  - ISM 4153 Enterprise Resource Planning Systems
  - ISM 4213 Advanced Database Administration
GPA REQUIREMENTS
A GPA of 2.0 or higher must be achieved in all Business Analytics and Information Systems coursework.

A GPA of 2.0 or higher must be achieved in all Entrepreneurship coursework. All attempts will be included in the GPA unless grade forgiveness has been used.

GRADING REQUIREMENT
A grade of C- or higher is required for all Entrepreneurship courses.

RESIDENCY REQUIREMENT
Nine hours of the required 12 credit hours of Business Analytics and Information Systems coursework must be taken in residence at USF Tampa.

Nine hours of the required 12 credit hours of Entrepreneurship coursework must be taken in residence at USF Tampa.

ECONOMICS AND BUSINESS ANALYTICS AND INFORMATION SYSTEMS (GEC/GAI) CONCENTRATION

REQUIREMENTS FOR THE CONCENTRATION IN ECONOMICS AND BUSINESS ANALYTICS AND INFORMATION SYSTEMS

TOTAL CONCENTRATION HOURS: 18

CONCENTRATION CORE (6 HOURS)
Nine hours of the required 12 credit hours of Economics coursework must be taken in residence at USF Tampa. A GPA of 2.0 or higher must be achieved in all Economics coursework. All attempts will be included in the GPA unless grade forgiveness has been used.

Nine hours of the required 12 credit hours of Business Analytics and Information Systems coursework must be taken in residence at USF Tampa. A GPA of 2.0 or higher must be achieved in all Business Analytics and Information Systems coursework.

Business Analytics and Information Systems Required Courses:
- ISM 4220 Business Data Communications
- ISM 4233 Information System Interface Design
- ISM 4234 Object-Oriented Design and Development
- ISM 4252 Mainframe Technologies
- ISM 4300 Managing Information Resources
- ISM 4314 Project Management
- ISM 4323 Information Security and IT Risk Management
- ISM 4382 Global Information Systems
- ISM 4400 Decision Support Systems
- ISM 4402 Business Intelligence
- ISM 4432 Software Testing
- ISM 4480 Electronic Commerce Systems

Concentration Electives (18 hours)
Business Analytics and Information Systems Electives:

- 6 hours of approved MIS electives
  - ISM 3115 Business Informatics
  - ISM 3232 Business Application Development
  - ISM 3431 Operations and Supply Chain Processes
  - ISM 4041 Global Cyber Ethics
  - ISM 4153 Enterprise Resource Planning Systems
  - ISM 4213 Advanced Database Administration
  - ISM 4220 Business Data Communications
  - ISM 4233 Information System Interface Design
  - ISM 4234 Object-Oriented Design and Development
  - ISM 4252 Mainframe Technologies
  - ISM 4300 Managing Information Resources
  - ISM 4314 Project Management
  - ISM 4323 Information Security and IT Risk Management
  - ISM 4382 Global Information Systems
  - ISM 4400 Decision Support Systems
  - ISM 4402 Business Intelligence
  - ISM 4432 Software Testing
  - ISM 4480 Electronic Commerce Systems

Economics Elective Courses - Grade of "C-" or higher is required for all Economics courses:

- 12 hours of upper-level Economics electives with ECO, ECS, ECP prefix; excluding QMB 3200
  - ECO 3101 Intermediate Price Theory
  - ECO 3203 Intermediate Macroeconomics
  - ECO 3622 American Economic History
  - ECO 3703 International Economics
  - ECO 4105 Advanced Price Theory
  - ECO 4270 Economic Growth
  - ECO 4303 History of Economic Thought
  - ECO 4323 Radical Political Economy
  - ECO 4400 Game Theory and Economic Applications
  - ECO 4401 Introduction to Mathematical Economics
  - ECO 4421 Introduction to Econometrics
  - ECO 4504 Public Finance
  - ECO 4704 International Trade and Policy
  - ECO 4713 International Macroeconomics
  - ECP 3125 Economics of Inequality
  - ECP 3201 Economics of Women and Work
ECP 3203 Labor Economics
- ECP 3302 Environmental Economics
- ECP 3403 Industrial Organization
- ECP 3413 Economics of Regulation and Antitrust
- ECP 3530 Economics of Health
- ECP 3613 Urban Economics
- ECP 3623 Regional Economics
- ECP 3703 Managerial Economics
- ECP 4006 Economics of Sport
- ECP 4451 Law and Economics
- ECP 4505 Economics of Crime
- ECP 4510 Economics of Education
- ECP 4704 Economics of Business Strategy
- ECS 3013 Economic Development
- ECS 4003 Comparative Economic Systems
- ECS 4430 Economics of Latin America

GPA REQUIREMENTS

A GPA of 2.0 or higher must be achieved in all Economics coursework. All attempts will be included in the GPA unless grade forgiveness has been used.

A GPA of 2.0 or higher must be achieved in all Business Analytics and Information Systems coursework.

RESIDENCY REQUIREMENT

Nine hours of the required 12 credit hours of Economics coursework must be taken in residence at USF Tampa.

Nine hours of the required 12 credit hours of Business Analytics and Information Systems coursework must be taken in residence at USF Tampa.

ECONOMICS AND FINANCE (GEC/GFI) CONCENTRATION

REQUIREMENTS FOR THE CONCENTRATION IN ECONOMICS AND FINANCE

TOTAL CONCENTRATION HOURS: 18

CONCENTRATION CORE (12 HOURS)

Nine hours of the required 12 credit hours of Economics coursework must be taken in residence at USF Tampa. A GPA of 2.0 or higher must be achieved in all Economics coursework. All attempts will be included in the GPA unless grade forgiveness has been used.

Nine hours of the required 12 credit hours of Finance coursework must be taken in residence at USF Tampa. A grade of C- or better must be earned in each of the required Finance courses counted for the minor. A GPA of 2.0 or higher must be achieved in all Finance coursework. All attempts will be included in the GPA unless grade forgiveness has been used.
Finance Required Courses:
- FIN 4504 Principles of Investments
- FIN 4303 Financial Institutions and Markets
- FIN 4414 Advanced Corporation Finance
- FIN 4443 Financial Policies and Strategies*

*FIN 4443 is capstone course that should be taken in the final semester of the major (or as close as possible).

Concentration Electives (12 hours)
Economics Elective Courses - Grade of "C-" or higher is required for all Economics courses:
- 12 hours of upper-level Economics electives with ECO, ECS, ECP prefix; excluding QMB 3200
  - ECO 3101 Intermediate Price Theory
  - ECO 3203 Intermediate Macroeconomics
  - ECO 3622 American Economic History
  - ECO 3703 International Economics
  - ECO 4105 Advanced Price Theory
  - ECO 4270 Economic Growth
  - ECO 4303 History of Economic Thought
  - ECO 4323 Radical Political Economy
  - ECO 4400 Game Theory and Economic Applications
  - ECO 4401 Introduction to Mathematical Economics
  - ECO 4421 Introduction to Econometrics
  - ECO 4504 Public Finance
  - ECO 4704 International Trade and Policy
  - ECO 4713 International Macroeconomics
  - ECP 3125 Economics of Inequality
  - ECP 3201 Economics of Women and Work
  - ECP 3203 Labor Economics
  - ECP 3302 Environmental Economics
  - ECP 3403 Industrial Organization
  - ECP 3413 Economics of Regulation and Antitrust
  - ECP 3530 Economics of Health
  - ECP 3613 Urban Economics
  - ECP 3623 Regional Economics
  - ECP 3703 Managerial Economics
  - ECP 4006 Economics of Sport
  - ECP 4451 Law and Economics
  - ECP 4505 Economics of Crime
  - ECP 4510 Economics of Education
  - ECP 4704 Economics of Business Strategy
**ECONOMICS AND MARKETING (GEC/GMK) CONCENTRATION**

**REQUIREMENTS FOR THE CONCENTRATION IN ECONOMICS AND MARKETING**

**TOTAL CONCENTRATION HOURS: 18**

**CONCENTRATION CORE (3 HOURS)**

Nine hours of the required 12 credit hours of Economics coursework must be taken in residence at USF Tampa. A GPA of 2.0 or higher must be achieved in all Economics coursework. All attempts will be included in the GPA unless grade forgiveness has been used.

Nine hours of the required 12 credit hours of Finance coursework must be taken in residence at USF Tampa. A grade of C- or better must be earned in each of the required Finance courses counted for the minor.

**Marketing Required Courses:**

- MAR 3823 Marketing Management

**Concentration Electives (21 hours)**

**Economics Elective Courses** - Grade of “C-” or higher is required for all Economics courses:

- 12 credit hours of upper-level Economics electives with ECO, ECS, ECP prefix; excluding QMB 3200
  - ECO 3101 Intermediate Price Theory
  - ECO 3203 Intermediate Macroeconomics
  - ECO 3622 American Economic History
  - ECO 3703 International Economics
  - ECO 4105 Advanced Price Theory
  - ECO 4270 Economic Growth
  - ECO 4303 History of Economic Thought
  - ECO 4323 Radical Political Economy
  - ECO 4400 Game Theory and Economic Applications
  - ECO 4401 Introduction to Mathematical Economics
  - ECO 4421 Introduction to Econometrics
  - ECO 4504 Public Finance
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Marketing Elective Courses:
- Any three (3) upper-level Marketing courses with a MAR prefix (excluding MAR 4824)
  - MAR 3400 Professional Selling
  - MAR 3613 Market Research
  - MAR 3711 Sports Marketing
  - MAR 4156 International Marketing
  - MAR 4213 Logistics and Physical Distribution Management
  - MAR 4231 Retailing Management
  - MAR 4333 Promotion Management
  - MAR 4403 Sales Management
  - MAR 4453 Business to Business Marketing
  - MAR 4503 Buyer Behavior
  - MAR 4712 Healthcare Marketing
GRADING REQUIREMENT
A grade of C or higher (not C-) is required in MAR 3023 Basic Marketing and all Marketing minor coursework.

RESIDENCY REQUIREMENT
Nine hours of the required 12 credit hours of Economics coursework must be taken in residence at USF Tampa.
Nine hours of the required 12 credit hours of Marketing coursework must be taken in residence at USF Tampa.

ECONOMICS AND MANAGEMENT (GEC/GMN) CONCENTRATION

REQUIREMENTS FOR THE CONCENTRATION IN ECONOMICS AND MANAGEMENT

TOTAL CONCENTRATION HOURS: 18

CONCENTRATION CORE (12 HOURS)
Nine hours of the required 12 credit hours of Economics coursework must be taken in residence at USF Tampa. A GPA of 2.0 or higher must be achieved in all Economics coursework. All attempts will be included in the GPA unless grade forgiveness has been used.
Nine hours of the required 12 credit hours of Management coursework must be taken in residence at USF Tampa. A GPA of 2.0 or higher must be achieved in all Management coursework.

Management Required Courses:
- MAN 3240 Organizational Behavior Analysis
- MAN 3301 Human Resource Management
- MAN 4282 Organizational Assessment
- MAN 4737 Integrated Management Applications

Concentration Electives (12 hours)

Economics Elective Courses - Grade of "C-" or higher is required for all Economics courses:
- 12 hours of upper-level Economics electives with ECO, ECS, ECP prefix; excluding QMB 3200
  - ECO 3101 Intermediate Price Theory
  - ECO 3203 Intermediate Macroeconomics
  - ECO 3622 American Economic History
  - ECO 3703 International Economics
  - ECO 4105 Advanced Price Theory
  - ECO 4270 Economic Growth
  - ECO 4303 History of Economic Thought
  - ECO 4323 Radical Political Economy
  - ECO 4400 Game Theory and Economic Applications
  - ECO 4401 Introduction to Mathematical Economics
  - ECO 4421 Introduction to Econometrics
  - ECO 4504 Public Finance
  - ECO 4704 International Trade and Policy
  - ECO 4713 International Macroeconomics
GPA REQUIREMENTS
A GPA of 2.0 or higher must be achieved in all Economics and Management coursework. All attempts will be included in the GPA unless grade forgiveness has been used.

RESIDENCY REQUIREMENT
Nine hours of the required 12 credit hours of Economics coursework must be taken in residence at USF Tampa.
Nine hours of the required 12 credit hours of Management coursework must be taken in residence at USF Tampa.

ECONOMICS AND ENTREPRENEURSHIP (GEC/GNT) CONCENTRATION

REQUIREMENTS FOR THE CONCENTRATION IN ECONOMICS AND ENTREPRENEURSHIP

TOTAL CONCENTRATION HOURS: 18

CONCENTRATION CORE (12 HOURS)
Nine hours of the required 12 credit hours of Economics coursework must be taken in residence at USF Tampa. A GPA of 2.0 or higher must be achieved in all Economics coursework. All attempts will be included in the GPA unless grade forgiveness has been used.

A grade of C- or higher is required for all Entrepreneurship courses. A GPA of 2.0 or higher must be achieved in all Entrepreneurship coursework. All attempts will be included in the GPA unless grade forgiveness has been used. Nine hours of the required 12 credit hours of Entrepreneurship coursework must be taken in residence at USF Tampa.

Entrepreneurship Required Courses:
- ENT 4014 New Venture Formation
• ENT 3613 Creativity and Innovation in Entrepreneurial Films or EIN 4933 Selected Topics in Industrial Engineering: Creativity in Technology

• Select two (2) courses from the following list:
  o EIN 4933 Selected Topics in Industrial Engineering: Product Development
  o ENT 4424 Fundamentals of Venture Capital and Private Equity
  o ENT 4024 Small Business Management - Entrepreneurship
  o MAN 4804 Small Business Management Counseling

Concentration Electives (12 hours)

Economics Elective Courses - Grade of "C-" or higher is required for all Economics courses:

• 12 hours of upper-level Economics electives with ECO, ECS, ECP prefix; excluding QMB 3200
  o ECO 3101 Intermediate Price Theory
  o ECO 3203 Intermediate Macroeconomics
  o ECO 3622 American Economic History
  o ECO 3703 International Economics
  o ECO 4105 Advanced Price Theory
  o ECO 4270 Economic Growth
  o ECO 4303 History of Economic Thought
  o ECO 4323 Radical Political Economy
  o ECO 4400 Game Theory and Economic Applications
  o ECO 4401 Introduction to Mathematical Economics
  o ECO 4421 Introduction to Econometrics
  o ECO 4504 Public Finance
  o ECO 4704 International Trade and Policy
  o ECO 4713 International Macroeconomics
  o ECP 3125 Economics of Inequality
  o ECP 3201 Economics of Women and Work
  o ECP 3203 Labor Economics
  o ECP 3302 Environmental Economics
  o ECP 3403 Industrial Organization
  o ECP 3413 Economics of Regulation and Antitrust
  o ECP 3530 Economics of Health
  o ECP 3613 Urban Economics
  o ECP 3623 Regional Economics
  o ECP 3703 Managerial Economics
  o ECP 4006 Economics of Sport
  o ECP 4451 Law and Economics
  o ECP 4505 Economics of Crime
  o ECP 4510 Economics of Education
  o ECP 4704 Economics of Business Strategy

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GPA REQUIREMENTS

A GPA of 2.0 or higher must be achieved in all Economics and Entrepreneurship coursework. All attempts will be included in the GPA unless grade forgiveness has been used.

GRADING REQUIREMENT

A grade of C- or higher is required for all Economics and Entrepreneurship courses.

RESIDENCY REQUIREMENT

Nine hours of the required 12 credit hours of Economics coursework must be taken in residence at USF Tampa.

Nine hours of the required 12 credit hours of Entrepreneurship coursework must be taken in residence at USF Tampa.

FINANCE AND BUSINESS ANALYTICS AND INFORMATION SYSTEMS (GFI/GAI) CONCENTRATION

REQUIREMENTS FOR THE CONCENTRATION IN FINANCE AND BUSINESS ANALYTICS AND INFORMATION SYSTEMS

TOTAL CONCENTRATION HOURS: 18

CONCENTRATION CORE (18 HOURS)

Nine hours of the required 12 credit hours of Finance coursework must be taken in residence at USF Tampa. A grade of C- or better must be earned in each of the required Finance courses counted for the minor. A GPA of 2.0 or higher must be achieved in all Finance coursework. All attempts will be included in the GPA unless grade forgiveness has been used.

Nine hours of the required 12 credit hours of Business Analytics and Information Systems coursework must be taken in residence at USF Tampa. A GPA of 2.0 or higher must be achieved in all Business Analytics and Information Systems coursework.

Finance Required Courses:

- FIN 4504 Principles of Investments
- FIN 4303 Financial Institutions and Markets
- FIN 4414 Advanced Corporation Finance
- FIN 4443 Financial Policies and Strategies*

*FIN 4443 is capstone course that should be taken in the final semester of the major (or as close as possible).

Business Analytics and Information Systems Required Courses:

- ISM 3113 Systems Analysis and Design
- ISM 4212 Database Design and Administration

Concentration Electives (6 hours)

Business Analytics and Information Systems Electives:

- 6 hours of approved MIS electives
  - ISM 3115 Business Informatics
  - ISM 3232 Business Application Development
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- ISM 3431 Operations and Supply Chain Processes
- ISM 4041 Global Cyber Ethics
- ISM 4153 Enterprise Resource Planning Systems
- ISM 4213 Advanced Database Administration
- ISM 4220 Business Data Communications
- ISM 4233 Information System Interface Design
- ISM 4234 Object-Oriented Design and Development
- ISM 4252 Mainframe Technologies
- ISM 4300 Managing Information Resources
- ISM 4314 Project Management
- ISM 4323 Information Security and IT Risk Management
- ISM 4382 Global Information Systems
- ISM 4400 Decision Support Systems
- ISM 4402 Business Intelligence
- ISM 4432 Software Testing
- ISM 4480 Electronic Commerce Systems

GPA REQUIREMENTS

A GPA of 2.0 or higher must be achieved in all Finance coursework. All attempts will be included in the GPA unless grade forgiveness has been used.

A GPA of 2.0 or higher must be achieved in all Business Analytics and Information Systems coursework.

GRADING REQUIREMENT

A grade of C- or better must be earned in each of the required Finance courses counted for the minor.

RESIDENCY REQUIREMENT

Nine hours of the required 12 credit hours of Finance coursework must be taken in residence at USF Tampa.

Nine hours of the required 12 credit hours of Business Analytics and Information Systems coursework must be taken in residence at USF Tampa.

FINANCE AND MARKETING (GFI/GMK) CONCENTRATION

REQUIREMENTS FOR THE CONCENTRATION IN FINANCE AND MARKETING

TOTAL CONCENTRATION HOURS: 18

CONCENTRATION CORE (15 HOURS)

Nine hours of the required 12 credit hours of Finance coursework must be taken in residence at USF Tampa. A grade of C- or better must be earned in each of the required Finance courses counted for the minor. A GPA of 2.0 or higher must be achieved in all Finance coursework. All attempts will be included in the GPA unless grade forgiveness has been used.

Nine hours of the required 12 credit hours of Marketing coursework must be taken in residence at USF Tampa. A grade of C or higher (not C-) is required in MAR 3023 Basic Marketing and all Marketing minor coursework. A GPA of 2.0 or higher must be achieved in all Marketing coursework.
Finance Required Courses:
- FIN 4504 Principles of Investments
- FIN 4303 Financial Institutions and Markets
- FIN 4414 Advanced Corporation Finance
- FIN 4443 Financial Policies and Strategies*

*FIN 4443 is capstone course that should be taken in the final semester of the minor (or as close as possible).

Marketing Required Courses:
- MAR 3823 Marketing Management

Concentration Electives (9 hours)
Marketing Elective Courses:
- Any three (3) upper-level Marketing courses with a MAR prefix (excluding MAR 4824)
  - MAR 3400 Professional Selling
  - MAR 3613 Market Research
  - MAR 3711 Sports Marketing
  - MAR 4156 International Marketing
  - MAR 4213 Logistics and Physical Distribution Management
  - MAR 4231 Retailing Management
  - MAR 4333 Promotion Management
  - MAR 4403 Sales Management
  - MAR 4453 Business to Business Marketing
  - MAR 4503 Buyer Behavior
  - MAR 4712 Healthcare Marketing

GPA REQUIREMENTS
A GPA of 2.0 or higher must be achieved in all Finance coursework. All attempts will be included in the GPA unless grade forgiveness has been used.
A GPA of 2.0 or higher must be achieved in all Marketing coursework.

GRADING REQUIREMENT
A grade of C- or better must be earned in each of the required Finance courses counted for the minor.
A grade of C or higher (not C-) is required in MAR 3023 Basic Marketing and all Marketing minor coursework.

RESIDENCY REQUIREMENT
Nine hours of the required 12 credit hours of Finance coursework must be taken in residence at USF Tampa.
Nine hours of the required 12 credit hours of Marketing coursework must be taken in residence at USF Tampa.
FINANCE AND MANAGEMENT (GFI/GMN) CONCENTRATION

REQUIREMENTS FOR THE CONCENTRATION IN FINANCE AND MANAGEMENT

TOTAL CONCENTRATION HOURS: 18

CONCENTRATION CORE (24 HOURS)

Nine hours of the required 12 credit hours of Finance coursework must be taken in residence at USF Tampa. A grade of C- or better must be earned in each of the required Finance courses counted for the minor. A GPA of 2.0 or higher must be achieved in all Finance coursework. All attempts will be included in the GPA unless grade forgiveness has been used.

Nine hours of the required 12 credit hours of Management coursework must be taken in residence at USF Tampa. A GPA of 2.0 or higher must be achieved in all Management coursework.

Finance Required Courses:
- FIN 4504 Principles of Investments
- FIN 4303 Financial Institutions and Markets
- FIN 4414 Advanced Corporation Finance
- FIN 4443 Financial Policies and Strategies*

*FIN 4443 is capstone course that should be taken in the final semester of the major (or as close as possible).

Management Required Courses:
- MAN 3240 Organizational Behavior Analysis
- MAN 3301 Human Resource Management
- MAN 4282 Organizational Assessment
- MAN 4737 Integrated Management Applications

GPA REQUIREMENTS

A GPA of 2.0 or higher must be achieved in all Finance coursework. All attempts will be included in the GPA unless grade forgiveness has been used.

A GPA of 2.0 or higher must be achieved in all Management coursework.

GRADING REQUIREMENT

A grade of C- or better must be earned in each of the required Finance courses counted for the minor.

RESIDENCY REQUIREMENT

Nine hours of the required 12 credit hours of Finance coursework must be taken in residence at USF Tampa.

Nine hours of the required 12 credit hours of Management coursework must be taken in residence at USF Tampa.
FINANCE AND ENTREPRENEURSHIP (GFI/GNT) CONCENTRATION

REQUIREMENTS FOR THE CONCENTRATION IN FINANCE AND ENTREPRENEURSHIP

TOTAL CONCENTRATION HOURS: 18

CONCENTRATION CORE (24 HOURS)

Nine hours of the required 12 credit hours of Finance coursework must be taken in residence at USF Tampa. A grade of C- or better must be earned in each of the required Finance courses counted for the minor. A GPA of 2.0 or higher must be achieved in all Finance coursework. All attempts will be included in the GPA unless grade forgiveness has been used.

A grade of C- or higher is required for all Entrepreneurship courses. A GPA of 2.0 or higher must be achieved in all Entrepreneurship coursework. All attempts will be included in the GPA unless grade forgiveness has been used. Nine hours of the required 12 credit hours of Entrepreneurship coursework must be taken in residence at USF Tampa.

Finance Required Courses:
- FIN 4504 Principles of Investments
- FIN 4303 Financial Institutions and Markets
- FIN 4414 Advanced Corporation Finance
- FIN 4443 Financial Policies and Strategies*

*FIN 4443 is capstone course that should be taken in the final semester of the major (or as close as possible).

Entrepreneurship Required Courses:
- ENT 4014 New Venture Formation
- ENT 3613 Creativity and Innovation in Entrepreneurial Films or EIN 4200 Creativity in Technology
- Select two (2) courses from the following list:
  - ENT 4424 Fundamentals of Venture Capital and Private Equity
  - ENT 4024 Small Business Management - Entrepreneurship
  - MAN 4804 Small Business Management Counseling

GPA REQUIREMENTS

A GPA of 2.0 or higher must be achieved in all Finance and Entrepreneurship coursework. All attempts will be included in the GPA unless grade forgiveness has been used.

GRADING REQUIREMENT

A grade of C- or better must be earned in each of the required Finance courses counted for the minor.
A grade of C- or higher is required for all Entrepreneurship courses.

RESIDENCY REQUIREMENT

Nine hours of the required 12 credit hours of Finance coursework must be taken in residence at USF Tampa.
Nine hours of the required 12 credit hours of Entrepreneurship coursework must be taken in residence at USF Tampa.
MARKETING AND BUSINESS ANALYTICS AND INFORMATION SYSTEMS
(GMK/GAI) CONCENTRATION

REQUIREMENTS FOR THE CONCENTRATION IN MARKETING AND BUSINESS ANALYTICS AND INFORMATION SYSTEMS

TOTAL CONCENTRATION HOURS: 18

CONCENTRATION CORE (9 HOURS)

Nine hours of the required 12 credit hours of Business Analytics and Information Systems coursework must be taken in residence at USF Tampa. A GPA of 2.0 or higher must be achieved in all Business Analytics and Information Systems coursework.

Nine hours of the required 12 credit hours of Marketing coursework must be taken in residence at USF Tampa. A grade of C or higher (not C-) is required in MAR 3023 Basic Marketing and all Marketing minor coursework. A GPA of 2.0 or higher must be achieved in all Marketing coursework.

Business Analytics and Information Systems Required Courses:

- ISM 3113 Systems Analysis and Design
- ISM 4212 Database Design and Administration

Marketing Required Courses:

- MAR 3823 Marketing Management

Concentration Electives (15 hours)

Business Analytics and Information Systems Electives:

- 6 hours of approved MIS electives
  - ISM 3115 Business Informatics
  - ISM 3232 Business Application Development
  - ISM 3431 Operations and Supply Chain Processes
  - ISM 4041 Global Cyber Ethics
  - ISM 4153 Enterprise Resource Planning Systems
  - ISM 4213 Advanced Database Administration
  - ISM 4220 Business Data Communications
  - ISM 4233 Information System Interface Design
  - ISM 4234 Object-Oriented Design and Development
  - ISM 4252 Mainframe Technologies
  - ISM 4300 Managing Information Resources
  - ISM 4314 Project Management
  - ISM 4323 Information Security and IT Risk Management
  - ISM 4382 Global Information Systems
  - ISM 4400 Decision Support Systems
  - ISM 4402 Business Intelligence
  - ISM 4432 Software Testing
  - ISM 4480 Electronic Commerce Systems
Marketing Elective Courses:

- Any three (3) upper-level Marketing courses with a MAR prefix (excluding MAR 4824)
  - MAR 3400 Professional Selling
  - MAR 3613 Market Research
  - MAR 3711 Sports Marketing
  - MAR 4156 International Marketing
  - MAR 4213 Logistics and Physical Distribution Management
  - MAR 4231 Retailing Management
  - MAR 4333 Promotion Management
  - MAR 4403 Sales Management
  - MAR 4453 Business to Business Marketing
  - MAR 4503 Buyer Behavior
  - MAR 4712 Healthcare Marketing

GPA REQUIREMENTS

A GPA of 2.0 or higher must be achieved in all Business Analytics and Information Systems coursework.

A GPA of 2.0 or higher must be achieved in all Marketing coursework.

GRADING REQUIREMENT

A grade of C or higher (not C-) is required in MAR 3023 Basic Marketing and all Marketing minor coursework.

RESIDENCY REQUIREMENT

Nine hours of the required 12 credit hours of Business Analytics and Information Systems coursework must be taken in residence at USF Tampa.

Nine hours of the required 12 credit hours of Marketing coursework must be taken in residence at USF Tampa.

MARKETING AND ENTREPRENEURSHIP (GMK/GNT) CONCENTRATION

REQUIREMENTS FOR THE CONCENTRATION IN MARKETING AND ENTREPRENEURSHIP

TOTAL CONCENTRATION HOURS: 18

CONCENTRATION CORE (15 HOURS)

A grade of C- or higher is required for all Entrepreneurship courses. A GPA of 2.0 or higher must be achieved in all Entrepreneurship coursework. All attempts will be included in the GPA unless grade forgiveness has been used. Nine hours of the required 12 credit hours of Entrepreneurship coursework must be taken in residence at USF Tampa.

Marketing Required Courses:

- MAR 3823 Marketing Management
Entrepreneurship Required Courses:
- ENT 4014 New Venture Formation
- ENT 3613 Creativity and Innovation in Entrepreneurial Films or EIN 4200 Creativity in Technology
- Select two (2) courses from the following list:
  - ENT 4424 Fundamentals of Venture Capital and Private Equity
  - ENT 4024 Small Business Management - Entrepreneurship
  - MAN 4804 Small Business Management Counseling

Concentration Electives (9 hours)

Marketing Elective Courses:
- Any three (3) upper-level Marketing courses with a MAR prefix (excluding MAR 4824)
  - MAR 3400 Professional Selling
  - MAR 3613 Market Research
  - MAR 3711 Sports Marketing
  - MAR 4156 International Marketing
  - MAR 4213 Logistics and Physical Distribution Management
  - MAR 4231 Retailing Management
  - MAR 4333 Promotion Management
  - MAR 4403 Sales Management
  - MAR 4453 Business to Business Marketing
  - MAR 4503 Buyer Behavior
  - MAR 4712 Healthcare Marketing

GPA REQUIREMENTS

A GPA of 2.0 or higher must be achieved in all Marketing and Entrepreneurship coursework. All attempts will be included in the GPA unless grade forgiveness has been used.

GRADING REQUIREMENT

A grade of C or higher (not C-) is required in MAR 3023 Basic Marketing and all Marketing minor coursework.
A grade of C- or higher is required for all Entrepreneurship courses.

RESIDENCY REQUIREMENT

Nine hours of the required 12 credit hours of Marketing coursework must be taken in residence at USF Tampa.
Nine hours of the required 12 credit hours of Entrepreneurship coursework must be taken in residence at USF Tampa.
**MANAGEMENT AND BUSINESS ANALYTICS AND INFORMATION SYSTEMS (GMN/GAI) CONCENTRATION**

**REQUIREMENTS FOR THE CONCENTRATION IN MANAGEMENT AND BUSINESS ANALYTICS AND INFORMATION SYSTEMS**

**TOTAL CONCENTRATION HOURS: 18**

**CONCENTRATION CORE (18 HOURS)**

Nine hours of the required 12 credit hours of Management coursework must be taken in residence at USF Tampa. A GPA of 2.0 or higher must be achieved in all Management coursework.

Nine hours of the required 12 credit hours of Business Analytics and Information Systems coursework must be taken in residence at USF Tampa. A GPA of 2.0 or higher must be achieved in all Business Analytics and Information Systems coursework.

**Management Required Courses:**
- MAN 3240 Organizational Behavior Analysis
- MAN 3301 Human Resource Management
- MAN 4282 Organizational Assessment
- MAN 4737 Integrated Management Applications

**Business Analytics and Information Systems Required Courses:**
- ISM 3113 Systems Analysis and Design
- ISM 4212 Database Design and Administration

**Concentration Electives (6 hours)**

**Business Analytics and Information Systems Electives:**
- 6 hours of approved MIS electives
  - ISM 3115 Business Informatics
  - ISM 3232 Business Application Development
  - ISM 3431 Operations and Supply Chain Processes
  - ISM 4041 Global Cyber Ethics
  - ISM 4153 Enterprise Resource Planning Systems
  - ISM 4213 Advanced Database Administration
  - ISM 4220 Business Data Communications
  - ISM 4233 Information System Interface Design
  - ISM 4234 Object-Oriented Design and Development
  - ISM 4252 Mainframe Technologies
  - ISM 4300 Managing Information Resources
  - ISM 4314 Project Management
  - ISM 4323 Information Security and IT Risk Management
  - ISM 4382 Global Information Systems
ISM 4400 Decision Support Systems
ISM 4402 Business Intelligence
ISM 4432 Software Testing
ISM 4480 Electronic Commerce Systems

**GPA REQUIREMENTS**

A GPA of 2.0 or higher must be achieved in all Management coursework.

A GPA of 2.0 or higher must be achieved in all Business Analytics and Information Systems coursework.

**RESIDENCY REQUIREMENT**

Nine hours of the required 12 credit hours of Management coursework must be taken in residence at USF Tampa.

Nine hours of the required 12 credit hours of Business Analytics and Information Systems coursework must be taken in residence at USF Tampa.

**MANAGEMENT AND MARKETING (GMN/GMK) CONCENTRATION**

**REQUIREMENTS FOR THE CONCENTRATION IN MANAGEMENT AND MARKETING**

**TOTAL CONCENTRATION HOURS: 18**

**CONCENTRATION CORE (15 HOURS)**

Nine hours of the required 12 credit hours of Management coursework must be taken in residence at USF Tampa. A GPA of 2.0 or higher must be achieved in all Management coursework.

Nine hours of the required 12 credit hours of Marketing coursework must be taken in residence at USF Tampa. A grade of C or higher (not C-) is required in MAR 3023 Basic Marketing and all Marketing minor coursework. A GPA of 2.0 or higher must be achieved in all Marketing coursework.

Management Required Courses:
- MAN 3240 Organizational Behavior Analysis
- MAN 3301 Human Resource Management
- MAN 4282 Organizational Assessment
- MAN 4737 Integrated Management Applications

Marketing Required Courses:
- MAR 3823 Marketing Management

Concentration Electives (9 hours)

Marketing Elective Courses:
- Any three (3) upper-level Marketing courses with a MAR prefix (excluding MAR 4824)
  - MAR 3400 Professional Selling
  - MAR 3613 Market Research
  - MAR 3711 Sports Marketing
  - MAR 4156 International Marketing
  - MAR 4213 Logistics and Physical Distribution Management
  - MAR 4231 Retailing Management
  - MAR 4333 Promotion Management
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- MAR 4403 Sales Management
- MAR 4453 Business to Business Marketing
- MAR 4503 Buyer Behavior
- MAR 4712 Healthcare Marketing

GPA REQUIREMENTS

A GPA of 2.0 or higher must be achieved in all Management coursework.

A GPA of 2.0 or higher must be achieved in all Marketing coursework.

COURSE GRADE REQUIREMENT

A grade of C or higher (not C-) is required in MAR 3023 Basic Marketing and all Marketing minor coursework.

RESIDENCY REQUIREMENT

Nine hours of the required 12 credit hours of Management coursework must be taken in residence at USF Tampa.

Nine hours of the required 12 credit hours of Marketing coursework must be taken in residence at USF Tampa.

MANAGEMENT AND ENTREPRENEURSHIP (GMN/GNT) CONCENTRATION

REQUIREMENTS FOR THE CONCENTRATION IN MANAGEMENT AND ENTREPRENEURSHIP

TOTAL CONCENTRATION HOURS: 18

CONCENTRATION CORE (24 HOURS)

Nine hours of the required 12 credit hours of Management coursework must be taken in residence at USF Tampa. A GPA of 2.0 or higher must be achieved in all Management coursework.

A grade of C- or higher is required for all Entrepreneurship courses. A GPA of 2.0 or higher must be achieved in all Entrepreneurship coursework. All attempts will be included in the GPA unless grade forgiveness has been used. Nine hours of the required 12 credit hours of Entrepreneurship coursework must be taken in residence at USF Tampa.

Management Required Courses:
- MAN 3240 Organizational Behavior Analysis
- MAN 3301 Human Resource Management
- MAN 4282 Organizational Assessment
- MAN 4737 Integrated Management Applications

Entrepreneurship Required Courses:
- ENT 4014 New Venture Formation
- ENT 3613 Creativity and Innovation in Entrepreneurial Films or EIN 4200 Creativity in Technology
- Select two (2) courses from the following list:
  - ENT 4424 Fundamentals of Venture Capital and Private Equity
  - ENT 4024 Small Business Management - Entrepreneurship
  - MAN 4804 Small Business Management Counseling

GPA REQUIREMENTS

A GPA of 2.0 or higher must be achieved in all Management and Entrepreneurship coursework. All attempts will be included in the GPA unless grade forgiveness has been used.
GRADING REQUIREMENT
A grade of C- or higher is required for all Entrepreneurship courses.

RESIDENCY REQUIREMENT
Nine hours of the required 12 credit hours of Management coursework must be taken in residence at USF Tampa.
Nine hours of the required 12 credit hours of Entrepreneurship coursework must be taken in residence at USF Tampa.

B.A. - GLOBAL BUSINESS (GBP)
(CIP = 52.1101)
TOTAL DEGREE HOURS: 120
http://www.usf.edu/business/undergraduate/global/

The Bachelor of Arts in Global Business provides students with the knowledge, skills and experience necessary for successful careers in the global business environment. Graduates will have not only a Global Business major, but also a concentration in one of the functional areas of business (Finance, Management, Marketing, and Business Analytics and Information Systems). With this preparation, graduates will find employment in many manufacturing, service or knowledge-based industries with global markets, global suppliers, global sources of finance and/or a globally diverse workforce. The Global Business program is unique in that it combines preparation in business administration with language studies and a meaningful overseas work or study experience.

LIMITED ACCESS

THIS MAJOR HAS ADDITIONAL ADMISSIONS REQUIREMENTS AS LISTED IN THIS SECTION.

Admission to the Muma College of Business is based upon availability of faculty and space within each discipline. The Muma College of Business 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 Muma College of Business must complete the required prerequisites for entering the College in addition to other related criteria listed below.

Students must satisfy the following criteria:

• Minimum of 60 semester hours of college credit earned.
• Minimum of a cumulative grade point average of 2.5 on all college-level work and a minimum of 2.0 on all credit attempted at USF, including any prior to renewal. NOTE: Beginning Fall 2013 the Muma College of Business will establish each fall a new minimum overall GPA required to satisfy the limited access GPA admission requirement. The minimum overall GPA will range between a 2.5 with a maximum required GPA of a 2.75. Students will be notified each fall as to the minimum entrance GPA required for the following fall semester. Notification will occur through Canvas and updated at the following link: http://www.usf.edu/business/undergraduate/requirements-general.aspx.
• 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.
• A minimum score of 550 on paper and pencil or 213 on computerized TOEFL is required, when applicable.
STATE MANDATED COMMON COURSE PREREQUISITES

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 state or 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 state or 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 Muma 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 Muma College of Business and prepare a program plan for degree completion. Students transferring to the Muma College of Business with an A.S. in Business Administration may earn a major in Management only.

Florida College System students pursuing an Associate of Science (A.S.) program in any other discipline should contact the Office of Undergraduate Studies, SVC 2002, (813) 974-4051, for information regarding course transferability and degree articulation.

Completion of the following State Mandated Common Course Prerequisites (or equivalents) with a grade of C- or higher in each course and an overall 2.0 GPA:

- *ACG X021 Financial Accounting or ACG X022 or (ACG X001 & ACG X011)
- *ACG X071 Managerial Accounting or ACG X301
- CGS X100 Computers in Business or CGS X100C or CGS X530 or CGS X570 or CGS X060 or CGS X531 or CGS X000 or ISM X000 or CGS X518
- ECO X013 Principles of Macroeconomics
- ECO X023 Principles of Microeconomics
- MAC X233 Elementary Calculus or MAC X230
- STA X023 Introductory Statistics or QMB X100 or STA X122

*Accounting majors must earn a C not C- in ACG 2021 & ACG 2071

REQUIREMENTS FOR THE MAJOR IN GLOBAL BUSINESS

TOTAL MAJOR HOURS: 27

MAJOR REQUIREMENTS FOR THE B.A. DEGREE:

MAJOR CORE (15 HOURS)

A minimum of 120 hours is required to complete a B.A. in Global Business.

- Business Courses (12 credit hours)
  - MAN 4631 Global Perspectives and Management Choices
Choose three of the following four courses:

- FIN 3604 International Finance
- ISM 4382 Global Information Systems or ISM 4041 Global Cyber Ethics
- MAN 4600 International Management
- MAR 4156 International Marketing

- **Foreign Language Exit Requirement (3 credit hours)**
  - One foreign language course above the beginning language sequence, in the same language as the beginning foreign language sequence

Note: A beginning foreign language sequence (I and II) is required to meet the University's Foreign Language Exit (FLEX) Requirement.

- **Global Business Concentration is required (12 credit hours)**
  - A student must declare a 12-hour concentration from the following list:
    - Business Analytics and Information Systems
    - Finance
    - Management
    - Marketing

**Overseas Business Internship or Study Abroad Experience:** An approved study abroad or overseas internship must be completed as part of the degree requirements. Please meet with an advisor for study abroad/internship approval.

**Please note:** Courses used to satisfy a major in Accounting, Business Analytics and Information Systems, Finance, Management, or Marketing may not be used to satisfy the concentration requirement for the Global Business major. Courses used for a Global Business concentration cannot be used for a major.

**COURSE GRADE REQUIREMENT**

A 2.0 GPA is required for the Business courses, no grade below a C- will be accepted.

**GRADING REQUIREMENT**

No grade below a C- will be accepted for the major and concentration coursework.

**RESIDENCY REQUIREMENT**

Nine of the 12 required major core credit hours must be taken on the USF Tampa campus.

**FOREIGN LANGUAGE REQUIREMENT**

The Bachelor of Arts in Global Business requires students to successfully complete the University's Foreign Language Exit Requirement (FLEX).

**OTHER REQUIREMENTS**

Required Business courses cannot be used to satisfy the Business concentrations.

**RESEARCH OPPORTUNITIES**

All undergraduate students in any degree program can participate in undergraduate research. There are a number of options to receive academic credit for a mentored research experience and to have the experience show on the official transcript. Students who wish to enroll in an undergraduate research course should consult with their academic advisor to understand how the credit will apply towards the degree requirements. If no credit is needed, students may be eligible to enroll in the 0-credit IDS 2912, IDS 4914 or IDH 4910 courses. These courses will not impact degree credits or GPA but will show on an official transcript and document the experience. The Office of Undergraduate Research will assist students in understanding the various course options.
INTERNETIONAL OPPORTUNITIES

Overseas Business Internship or Study Abroad Experience

The Global 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.

ADVISING INFORMATION

Advising Services:

- Orientation for freshmen and transfer students.
- Academic advising and program information for pre-business students who have applied to the Muma College of Business and declared business as their intended major.
- Students who meet all Muma College of Business admission requirements.
- Evaluation of undergraduate transcripts for all declared and admitted business transfer students.
- Maintenance of academic advising records.
- Certification of graduation.

Location: C.H. Ferguson Hall (Business Administration Building) (BSN) 2102, (813) 974-4290 or schedule an advising appointment on-line: http://www.usf.edu/business/undergraduate/advising/.

Office Hours: 8am-6pm Monday-Thursday and 8am-4pm on Friday. Please refer to website for most current office hours information

FINANCE (GBFI) CONCENTRATION

REQUIREMENTS FOR THE CONCENTRATION IN FINANCE

TOTAL CONCENTRATION HOURS: 27

CONCENTRATION CORE (12 HOURS)

- FIN 4504 Principles of Investments
- FIN 4303 Financial Institutions and Markets
- FIN 4414 Advanced Corporation Finance
- FIN 3604 International Finance

GPA REQUIREMENTS

A 2.0 GPA is required for concentration courses.

GRADING REQUIREMENT

No grade below a C- will be accepted for the major and concentration coursework.

RESIDENCY REQUIREMENT

At least 9 credit hours of concentration coursework must be taken in residence at USF Tampa.
REQUIREMENTS FOR THE CONCENTRATION IN BUSINESS ANALYTICS AND INFORMATION SYSTEMS

TOTAL CONCENTRATION HOURS: 27

CONCENTRATION CORE (9 HOURS)

- ISM 3113 Systems Analysis and Design
- ISM 4212 Database Design and Administration
- ISM 4382 Global Information Systems

Concentration Electives (3 hours)

Three (3) hours of upper-level ISM Coursework:

- ISM 3115 Business Informatics
- ISM 3232 Business Application Development
- ISM 3431 Operations and Supply Chain Processes
- ISM 4041 Global Cyber Ethics
- ISM 4141 Java Programming
- ISM 4153 Enterprise Resource Planning Systems
- ISM 4213 Advanced Database Administration
- ISM 4220 Business Data Communications
- ISM 4233 Information System Interface Design
- ISM 4234 Object-Oriented Design and Development
- ISM 4252 Mainframe Technologies
- ISM 4300 Managing Information Resources
- ISM 4314 Project Management
- ISM 4323 Information Security and IT Risk Management
- ISM 4382 Global Information Systems
- ISM 4402 Business Intelligence
- ISM 4432 Software Testing
- ISM 4480 Electronic Commerce Systems
- ISM 4940 Business Analytics & Information Systems Internship

GPA REQUIREMENTS

A 2.0 GPA is required for concentration courses.

GRADING REQUIREMENT

No grade below a C- will be accepted for the major and concentration coursework.

RESIDENCY REQUIREMENT

At least 9 credit hours of concentration coursework must be taken in residence at USF Tampa.
MARKETING (GBMK) CONCENTRATION

REQUIREMENTS FOR THE CONCENTRATION IN MARKETING

TOTAL CONCENTRATION HOURS: 27

CONCENTRATION CORE (6 HOURS)

- MAR 3823 Marketing Management
- MAR 4156 International Marketing

Concentration Electives (6 hours)

- 6 hours of upper-level Marketing Coursework
  - MAR 3400 Professional Selling
  - MAR 3613 Market Research
  - MAR 3711 Sports Marketing
  - MAR 4213 Logistics and Physical Distribution Management
  - MAR 4231 Retailing Management
  - MAR 4333 Promotion Management
  - MAR 4403 Sales Management
  - MAR 4453 Business to Business Marketing
  - MAR 4503 Buyer Behavior
  - MAR 4712 Healthcare Marketing
  - MAR 4824 Marketing Management Problems

GPA REQUIREMENTS

A 2.0 GPA is required for concentration courses.

GRADING REQUIREMENT

No grade below a C- will be accepted for the major and concentration coursework

RESIDENCY REQUIREMENT

At least 9 credit hours of concentration coursework must be taken in residence at USF Tampa.

MANAGEMENT (GBMN) CONCENTRATION

REQUIREMENTS FOR THE CONCENTRATION IN MANAGEMENT

TOTAL CONCENTRATION HOURS: 27

CONCENTRATION CORE (12 HOURS)

- MAN 3240 Organizational Behavior Analysis
- MAN 3301 Human Resource Management
- MAN 4282 Organizational Assessment
- MAN 4600 International Management
GPA REQUIREMENTS
A 2.0 GPA is required for concentration courses.

GRADING REQUIREMENT
No grade below a C- will be accepted for the major and concentration coursework.

RESIDENCY REQUIREMENT
At least 9 credit hours of concentration coursework must be taken in residence at USF Tampa.

ECONOMICS (GEC) CONCENTRATION

TOTAL CONCENTRATION HOURS: 27

CONCENTRATION CORE (3 HOURS)
- ECO 3703 International Economics

Concentration Electives (9 hours)
- 9 hours of upper-level Economics coursework

GPA REQUIREMENTS
A 2.0 GPA is required for concentration courses.

B.S. - MANAGEMENT (MAN)
(CIP = 52.0201)
TOTAL DEGREE HOURS: 120

http://www.usf.edu/business/undergraduate/management/

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.

LIMITED ACCESS

THIS MAJOR HAS ADDITIONAL ADMISSIONS REQUIREMENTS AS LISTED IN THIS SECTION.

Admission to the Muma College of Business is based upon availability of faculty and space within each discipline. The Muma College of Business 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 Muma College of Business must complete the required prerequisites for entering the College in addition to other related criteria listed below.

Students must satisfy the following criteria:
- Minimum of 60 semester hours of college credit earned.
Minimum of a cumulative grade point average of 2.5 on all college-level work and a minimum of 2.0 on all credit attempted at USF, including any prior to renewal. NOTE: Beginning Fall 2013 the Muma College of Business will establish each fall a new minimum overall GPA required to satisfy the limited access GPA admission requirement. The minimum overall GPA will range between a 2.5 with a maximum required GPA of a 2.75. Students will be notified each fall as to the minimum entrance GPA required for the following fall semester. Notification will occur through Canvas and updated at the following link: http://www.usf.edu/business/undergraduate/requirements-general.aspx.

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.

A minimum score of 550 on paper and pencil or 213 on computerized TOEFL is required, when applicable.

STATE MANDATED COMMON COURSE PREREQUISITES

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 state or 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 state or 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 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. 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 Muma 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 Muma College of Business and prepare a program plan for degree completion. Students transferring to the Muma College of Business with an A.S. in Business Administration may earn a major in Management only.

Florida College System students pursuing an Associate of Science (A.S.) program in any other discipline should contact the Office of Undergraduate Studies, SVC 2002, (813) 974-4051, for information regarding course transferability and degree articulation.

Completion of the following State Mandated Common Prerequisites (or equivalents) with a grade of C- or higher in each course and an overall 2.0 GPA:

- *ACG X021 Financial Accounting or ACG X022 or (ACG X001 & ACG X011)
- *ACG X071 Managerial Accounting or ACG X301
- CGS X100 Computers in Business or CGS X100C or CGS X530 or CGS X570 or CGS X060 or CGS X531 or CGS X000 or ISM X000 or CGS X518
- ECO X013 Principles of Macroeconomics
- ECO X023 Principles of Microeconomics
- MAC X233 Elementary Calculus or MAC X230
- STA X023 Introductory Statistics or QMB X100 or STA X122

*Accounting majors must earn a C not C- in ACG 2021 & ACG 2071
REQUIREMENTS FOR THE MAJOR IN MANAGEMENT

TOTAL MAJOR HOURS: 21

MAJOR REQUIREMENTS FOR THE B.S. DEGREE:

MAJOR CORE (12 HOURS)

Within the 120-semester-hour program, students must complete 21 hours of management coursework beyond MAN 3025.

A grade point average of 2.0 or higher must be achieved in all major coursework at USF and an overall 2.0 GPA including transfer work. At least 15 hours must be taken in residence at USF Tampa.

- MAN 3240 Organizational Behavior Analysis
- MAN 3301 Human Resource Management
- MAN 4282 Organizational Assessment
- MAN 4737 Integrated Management Applications

MAJOR ELECTIVES (9 HOURS)

- ENT 4024 Small Business Management - Entrepreneurship
- GEY 4635 Business Management in an Aging Society
- MAN 4063 Management Ethics
- MAN 4402 Employment Laws
- MAN 4441 Negotiation and Conflict Resolution
- MAN 4600 International Management
- MAN 4631 Global Perspectives and Management Choices
- MAN 4930 Selected Topics in Management
- MAN 4940 Management Internship

GPA REQUIREMENTS

A grade point average of 2.0 or higher must be achieved in all major coursework at USF and an overall 2.0 GPA including transfer work.

RESIDENCY REQUIREMENT

At least 15 hours must be taken in residence at USF Tampa.

RESEARCH OPPORTUNITIES

All undergraduate students in any degree program can participate in undergraduate research. There are a number of options to receive academic credit for a mentored research experience and to have the experience show on the official transcript. Students who wish to enroll in an undergraduate research course should consult with their academic advisor to understand how the credit will apply toward the degree requirements. If no credit is needed, students may be eligible to enroll in the 0-credit IDS 2912, IDS 4914 or IDH 4910 courses. These courses will not impact degree credits or GPA but will show on an official transcript and document the experience. The Office of Undergraduate Research will assist students in understanding the various course options.
INTERNSHIP OPPORTUNITIES

It is recommended that Management students participate in an internship course (MAN 4940) as part of their plan of study.

ADVISING INFORMATION

Advising Services:

- Orientation for freshmen and transfer students.
- Academic advising and program information for pre-business students who have applied to the Muma College of Business and declared business as their intended major.
- Students who meet all Muma College of Business admission requirements.
- Evaluation of undergraduate transcripts for all declared and admitted business transfer students.
- Maintenance of academic advising records.
- Certification of graduation.

Location: C.H. Ferguson Hall (Business Administration Building) (BSN) 2102, (813) 974-4290 or schedule an advising appointment on-line: http://www.usf.edu/business/undergraduate/advising/.

Office Hours: 8am-6pm Monday-Thursday and 8am-4pm on Friday. Please refer to website for most current office hours information.

MANAGEMENT FACULTY


HUMAN RESOURCES MANAGEMENT (HRM) CONCENTRATION

TOTAL DEGREE HOURS: 120

This concentration provides students with the knowledge and skills necessary to obtain entry-level positions and to succeed in the field of Human Resources Management. Upon successful completion of this concentration, students will develop an understanding of the different functions encompassed within this particular discipline such as managing compensation, benefits, training and development, recruitment, staffing, employee retention, performance evaluation, employment law, as well as developing an appreciation of the importance of obtaining and enhancing diversity in the workplace.

STATE MANDATED COMMON COURSE PREREQUISITES

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 state or 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 state or 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 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. 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 Muma 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 Muma College of Business and prepare a program plan for degree completion. Students transferring to the Muma College of Business with an A.S. in Business Administration may earn a major in Management only.

Florida College System students pursuing an Associate of Science (A.S.) program in any other discipline should contact the Office of Undergraduate Studies, SVC 2002, (813) 974-4051, for information regarding course transferability and degree articulation.

Completion of the following State Mandated Common Prerequisites (or equivalents) with a grade of C- or higher in each course and an overall 2.0 GPA:

- *ACG X021/ACG X022 Financial Accounting (or ACG X001 & ACG X011)
- *ACG X071 Managerial Accounting (or X301)
- CGS X100 Computers in Business (or acceptable substitute, i.e., CGS X100C, CGS X530, CGS X570, CGS X531, CGS X000, 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 STA X122 (although STA X023 and QMB X100 are preferred).

*Accounting majors must earn a C not C- in ACG 2021 & ACG 2071

**REQUIREMENTS FOR THE CONCENTRATION IN HUMAN RESOURCES MANAGEMENT**

**TOTAL MAJOR HOURS: 21**

**MAJOR REQUIREMENTS FOR THE B.S. DEGREE:**

**MAJOR CORE - 12 HOURS**

- MAN 3240 Organizational Behavior Analysis
- MAN 3301 Human Resource Management
- MAN 4282 Organizational Assessment
- MAN 4737 Integrated Management Applications

**MAJOR CORE (6 HOURS)**

- MAN 4329 People Analytics
- MAN 4402 Employment Laws

**MAJOR ELECTIVES (3 HOURS)**

Choose three (3) credit hours from the following list of courses:

- ENT 4024 Small Business Management - Entrepreneurship
- GEY 4635 Business Management in an Aging Society
- MAN 4063 Management Ethics
- MAN 4441 Negotiation and Conflict Resolution
- MAN 4600 International Management
- MAN 4631 Global Perspectives and Management Choices
- MAN 4940 Management Internship

**GPA REQUIREMENTS**

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.

**RESIDENCY REQUIREMENT**

At least 15 hours must be taken in residence at USF Tampa.

**PROJECT MANAGEMENT (MPM) CONCENTRATION**

**TOTAL DEGREE HOURS: 120**

This concentration provides students with the knowledge and skills necessary to obtain entry-level positions and to succeed in the field of Human Resources Management. Upon successful completion of this concentration, students will develop an understanding of the different functions encompassed within this particular discipline such as managing compensation, benefits, training and development, recruitment, staffing, employee retention, performance evaluation, employment law, as well as developing an appreciation of the importance of obtaining and enhancing diversity in the workplace.

**LIMITED ACCESS**

**THIS CONCENTRATION HAS ADDITIONAL ADMISSIONS REQUIREMENTS AS LISTED IN THIS SECTION.**

Admission to the Muma College of Business is based upon availability of faculty and space within each discipline. The Muma College of Business 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 Muma College of Business must complete the required prerequisites for entering the College in addition to other related criteria listed below.

Students must satisfy the following criteria:

- Minimum of 60 semester hours of college credit earned.
- Minimum of a cumulative grade point average of 2.5 on all college-level work and a minimum of 2.0 on all credit attempted at USF, including any prior to renewal. NOTE: Beginning Fall 2013 the Muma College of Business will establish each fall a new minimum overall GPA required to satisfy the limited access GPA admission requirement. The minimum overall GPA will range between a 2.5 with a maximum required GPA of a 2.75. Students will be notified each fall as to the minimum entrance GPA required for the following fall semester. Notification will occur through Canvas and updated at the following link: [http://www.usf.edu/business/undergraduate/requirements-general.aspx](http://www.usf.edu/business/undergraduate/requirements-general.aspx).
- 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.
- A minimum score of 550 on paper and pencil or 213 on computerized TOEFL is required, when applicable.
STATE MANDATED COMMON COURSE PREREQUISITES

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 state or 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 state or 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 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. 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 Muma 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 Muma College of Business and prepare a program plan for degree completion. Students transferring to the Muma College of Business with an A.S. in Business Administration may earn a major in Management only.

Florida College System students pursuing an Associate of Science (A.S.) program in any other discipline should contact the Office of Undergraduate Studies, SVC 2002, (813) 974-4051, for information regarding course transferability and degree articulation.

Completion of the following State Mandated Common Prerequisites (or equivalents) with a grade of C- or higher in each course and an overall 2.0 GPA:

- *ACG X021/ACG X022 Financial Accounting (or ACG X001 & ACG X011)
- *ACG X071 Managerial Accounting (or X301)
- CGS X100 Computers in Business (or acceptable substitute, i.e., CGS X100C, CGS X530, CGS X570, CGS X531, CGS X000, 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 STA X122 (although STA X023 and QMB X100 are preferred).

*Accounting majors must earn a C not C- in ACG 2021 & ACG 2071

REQUIREMENTS FOR THE CONCENTRATION IN PROJECT MANAGEMENT

TOTAL MAJOR HOURS: 21

MAJOR REQUIREMENTS FOR THE B.S. DEGREE:

MAJOR CORE - 12 HOURS

- MAN 3301 Human Resource Management
- MAN 4282 Organizational Assessment
- MAN 4737 Integrated Management Applications
MAJOR CORE (9 HOURS)

This concentration provides students with the knowledge and skill necessary to obtain entry-level positions and to succeed in the areas of Project Management and Business Analysis.

- ISM 4314 Project Management - This course in project management covers the basic principles, processes, and tools of modern management. Principles and areas of the Project Management Body of Knowledge (PMBOK) are covered utilizing information technology examples.
- MAN 4441 Negotiation and Conflict Resolution - Examines what conflict is, how it occurs, and how it can be managed through negotiation, particularly in the workplace.
- MAN 4930 Selected Topics in Management: Business Analysis - This course will familiarize students with techniques used by business analysts who are engaged in strategy formulation, process design.

GPA REQUIREMENTS

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.

RESIDENCY REQUIREMENT

At least 15 hours must be taken in residence at USF Tampa.

B.S. - MARKETING (MKT)

(CIP = 52.1401)
TOTAL DEGREE HOURS: 120

http://www.usf.edu/business/undergraduate/marketing/

Marketing is a dynamic field with many dimensions, including product selection and planning, product distribution, branding, pricing and promotion. Marketing poses many challenges and yields generous rewards for those who meet these challenges. Marketing operations are carried out domestically and internationally in virtually all business organizations that offer a product or service. Many marketing concepts are applicable to the operations of non-profit organizations such as governmental, educational, and health care institutions, as well as charitable and political campaigns. Marketing operations provide the most visible links between the firm or institution and its many publics. Marketing deals with people who are constantly changing in their needs, wants, and desires; and coupled with these changing tastes is a fiercely competitive environment sustained by all the resources of a rapidly evolving technology. These forces lead to much of the challenge and 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
LIMITED ACCESS

THIS MAJOR HAS ADDITIONAL ADMISSIONS REQUIREMENTS AS LISTED IN THIS SECTION.

Admission to the Muma College of Business is based upon availability of faculty and space within each discipline. The Muma College of Business 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 Muma College of Business must complete the required prerequisites for entering the College in addition to other related criteria listed below.

Students must satisfy the following criteria:

- Minimum of 60 semester hours of college credit earned.
- Minimum of a cumulative grade point average of 2.5 on all college-level work and a minimum of 2.0 on all credit attempted at USF, including any prior to renewal. NOTE: Beginning Fall 2013 the Muma College of Business will establish each fall a new minimum overall GPA required to satisfy the limited access GPA admission requirement. The minimum overall GPA will range between a 2.5 with a maximum required GPA of a 2.75. Students will be notified each fall as to the minimum entrance GPA required for the following fall semester. Notification will occur through Canvas and updated at the following link: http://www.usf.edu/business/undergraduate/requirements-general.aspx.
- 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.
- A minimum score of 550 on paper and pencil or 213 on computerized TOEFL is required, when applicable.

STATE MANDATED COMMON COURSE PREREQUISITES

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 state or 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 state or 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 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. 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 Muma 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 (A.S.) program in Business Administration are fully admissible to USF. Please see a business advisor to determine the articulation courses, discuss admission to the Muma College of Business and prepare a program plan for degree completion. Students transferring to the Muma College of Business with an A.S. in Business Administration may earn a major in Management only.

Florida College System students pursuing an Associate of Science (A.S.) program in any other discipline should contact the Office of Undergraduate Studies, SVC 2002, (813) 974-4051, for information regarding course transferability and degree articulation.

Completion of the following State Mandated Common Prerequisites (or equivalents) with a grade of C- or higher in each course and an overall 2.0 GPA:

- *ACG X021 Financial Accounting or ACG X022 or (ACG X001 & ACG X011)
- *ACG X071 Managerial Accounting or ACG X301
- CGS X100 Computers in Business or CGS X100C or CGS X530 or CGS X570 or CGS X060 or CGS X531 or CGS X000 or ISM X000 or CGS X518
- ECO X013 Principles of Macroeconomics
REQUIREMENTS FOR THE MAJOR IN MARKETING

TOTAL MAJOR HOURS: 21

MAJOR REQUIREMENTS FOR THE B.S. DEGREE:

MAJOR CORE (9 HOURS)

Within the 120-semester-hour program, students must complete a minimum of 21 hours in marketing beyond MAR 3023.

Students choose to enroll as either:

- a Marketing major or
- a Marketing major with a concentration in Entrepreneurship or
- a Marketing major with a concentration in Sales or
- a Marketing major with a concentration in Sport and Entertainment Management or
- a Marketing major with a concentration in Supply Chain Management

A 2.0 GPA in all major course work at USF and an overall 2.0 GPA including transfer work. A grade of C or higher (not C-) is required in MAR 3023 Basic Marketing. At least 15 hours of upper-level marketing core courses must be taken in residence at USF Tampa. Students must earn at least a C- for the courses to count in the Marketing major.

If a student chooses a concentration, please see concentration-specific courses.

- MAR 3613 Marketing Research
- MAR 3823 Marketing Management
- MAR 4824 Marketing Management Problems

MAJOR ELECTIVES (12 HOURS)

- Major Required Electives (6 credit hours)
  - MAR 3400 Professional Selling
  - MAR 4333 Promotion Management
- Additional upper-level marketing courses (6 credit hours)
  - MAR 3711 Sports Marketing
  - MAR 4156 International Marketing
  - MAR 4213 Logistics and Physical Distribution Management
  - MAR 4231 Retailing Management
  - MAR 4403 Sales Management
  - MAR 4453 Business to Business Marketing
  - MAR 4503 Buyer Behavior
  - MAR 4712 Healthcare Marketing
GPA REQUIREMENTS
A 2.0 GPA in all major course work at USF and an overall 2.0 GPA including transfer work.

GRADING REQUIREMENT
A grade of C- is required in all Marketing classes, except MAR 3023 Basic Marketing. A grade of C (not C-) is required in MAR 3023 Basic Marketing.

RESIDENCY REQUIREMENT
At least 15 hours of upper level marketing core courses must be taken in residence at USF Tampa.

RESEARCH OPPORTUNITIES
All undergraduate students in any degree program can participate in undergraduate research. There are a number of options to receive academic credit for a mentored research experience and to have the experience show on the official transcript. Students who wish to enroll in an undergraduate research course should consult with their academic advisor to understand how the credit will apply towards the degree requirements. If no credit is needed, students may be eligible to enroll in the 0-credit IDS 2912, IDS 4914 or IDH 4910 courses. These courses will not impact degree credits or GPA but will show on an official transcript and document the experience. The Office of Undergraduate Research will assist students in understanding the various course options.

INTERNSHIP OPPORTUNITIES
It is strongly recommended that Marketing Majors take an internship course (MAR 4940 Practicum) as part of their plan of study. The marketing practicum course provides students an internship opportunity to gain real world business experiences while they continue to take other courses and make progress towards their degree. Intern sponsors are provided as part of the course and academic work is delivered online. It is also recommended that courses in information technology, finance, management, and international business be included in the business electives.

ADVISING INFORMATION
Advising Services:
- Orientation for freshmen and transfer students.
- Academic advising and program information for pre-business students who have applied to the Muma College of Business and declared business as their intended major.
- Students who meet all Muma College of Business admission requirements.
- Evaluation of undergraduate transcripts for all declared and admitted business transfer students.
- Maintenance of academic advising records.
- Certification of graduation.

Location: C.H. Ferguson Hall (Business Administration Building) (BSN) 2102, (813) 974-4290 or schedule an advising appointment on-line: http://www.usf.edu/business/undergraduate/advising/.

Office Hours: 8am-6pm Monday-Thursday and 8am-4pm on Friday. Please refer to website for most current office hours information.

MARKETING FACULTY
ENTREPRENEURSHIP (ENTC) CONCENTRATION

TOTAL DEGREE HOURS: 120

The Entrepreneurship Concentration in Marketing focuses on integration of the principles for successful opportunity recognition, application of creativity and innovation, and new venture creation and operations. The Entrepreneurship Concentration, with its emphasis on creativity and innovation, also prepares students for entrepreneurial leadership roles within organizations.

LIMITED ACCESS

THIS CONCENTRATION HAS ADDITIONAL ADMISSIONS REQUIREMENTS AS LISTED IN THIS SECTION.

Admission to the Muma College of Business is based upon availability of faculty and space within each discipline. The Muma College of Business 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 Muma College of Business must complete the required prerequisites for entering the College in addition to other related criteria listed below.

Students must satisfy the following criteria:

- Minimum of 60 semester hours of college credit earned.
- Minimum of a cumulative grade point average of 2.5 on all college-level work and a minimum of 2.0 on all credit attempted at USF, including any prior to renewal. NOTE: Beginning Fall 2013 the Muma College of Business will establish each fall a new minimum overall GPA required to satisfy the limited access GPA admission requirement. The minimum overall GPA will range between a 2.5 with a maximum required GPA of a 2.75. Students will be notified each fall as to the minimum entrance GPA required for the following fall semester. Notification will occur through Canvas and updated at the following link: http://www.usf.edu/business/undergraduate/requirements-general.aspx.
- 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.
- A minimum score of 550 on paper and pencil or 213 on computerized TOEFL is required, when applicable.

STATE MANDATED COMMON COURSE PREREQUISITES

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 state or 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 state or 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 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. 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 Muma 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 Muma College of Business and prepare a program plan for degree completion. Students transferring to the Muma College of Business with an A.S. in Business Administration may earn a major in Management only.

Florida College System students pursuing an Associate of Science (A.S.) program in any other discipline should contact the Office of Undergraduate Studies, SVC 2002, (813) 974-4051, for information regarding course transferability and degree articulation.
Completion of the following State Mandated Common Prerequisites (or equivalents) with a grade of C- or higher in each course and an overall 2.0 GPA:

- *ACG X021/ACG X022 Financial Accounting (or ACG X001 & ACG X011)
- *ACG X071 Managerial Accounting (or X301)
- CGS X100 Computers in Business (or acceptable substitute, i.e., CGS X100C, CGS X530, CGS X570, CGS X531, CGS X000, 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 STA X122 (although STA X023 and QMB X100 are preferred).

*Accounting majors must earn a C not C- in ACG 2021 & ACG 2071

REQUIREMENTS FOR THE CONCENTRATION IN ENTREPRENEURSHIP

TOTAL MAJOR HOURS: 21

MAJOR REQUIREMENTS FOR THE B.S. DEGREE:

MAJOR CORE - 9 HOURS

Required Marketing Courses (9 credit hours):

- MAR 3613 Marketing Research
- MAR 3823 Marketing Management
- MAR 4824 Marketing Management Problems

MAJOR CORE (12 HOURS)

Required Entrepreneurship Concentration Courses (12 credit hours):

- ENT 3613 Creativity and Innovation in Entrepreneurial Firms or EIN 4200 Creativity in Technology
- ENT 4014 New Venture Formation
- MAR 4503 Buyer Behavior
- Choose one of the following courses:
  - ENT 4024 Small Business Management - Entrepreneurship
  - MAR 3400 Professional Selling
  - MAR 4940 Marketing Internship/Practicum

GPA REQUIREMENTS

A 2.0 GPA in all major coursework at USF and an overall 2.0 GPA including transfer work.

COURSE GRADE REQUIREMENT

A grade of "C" or higher (not C-) is required in MAR 3023 Basic Marketing. A minimum grade of C- is required for all Marketing coursework.

RESIDENCY REQUIREMENT

At least 15 hours of upper-level Marketing core courses must be taken in residence at USF Tampa.
ADVISING INFORMATION

Location: C.H. Ferguson Hall (Business Administration Building) (BSN) 2102, (813) 974-4290 or schedule an advising appointment on-line: http://www.usf.edu/business/undergraduate/advising/.

Office Hours: 8am-6pm Monday-Thursday and 8am-4pm on Friday. Please refer to website for most current office hours information.

SALES (SALE) CONCENTRATION

STATE MANDATED COMMON COURSE PREREQUISITES

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 state or 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 state or 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 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. 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 Muma 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 (A.S.) program in Business Administration are fully admissible to USF. Please see a business advisor to determine the articulation courses, discuss admission to the Muma College of Business and prepare a program plan for degree completion. Students transferring to the Muma College of Business with an A.S. in Business Administration may earn a major in Management only.

Florida College System students pursuing an Associate of Science (A.S.) program in any other discipline should contact the Office of Undergraduate Studies, SVC 2002, (813) 974-4051, for information regarding course transferability and degree articulation.

Completion of the following State Mandated Common Prerequisites (or equivalents) with a grade of C- or higher in each course and an overall 2.0 GPA:

- *ACG X021/ACG X022 Financial Accounting (or ACG X001 & ACG X011)
- *ACG X071 Managerial Accounting (or X301)
- CGS X100 Computers in Business (or acceptable substitute, i.e., CGS X100C, CGS X530, CGS X570, CGS X531, CGS X000, 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 STA X122 (although STA X023 and QMB X100 are preferred).

*Accounting majors must earn a C not C- in ACG 2021 & ACG 2071
REQUIREMENTS FOR THE CONCENTRATION IN SALES

TOTAL MAJOR HOURS: 21

MAJOR REQUIREMENTS FOR THE B.S. DEGREE:

MAJOR CORE - 9 HOURS

Required Marketing Courses (9 credit hours):
- MAR 3613 Marketing Research
- MAR 3823 Marketing Management
- MAR 4824 Marketing Management Problems

MAJOR CORE (12 HOURS)

- MAR 3400 Professional Selling
- MAR 4333 Promotion Management
- MAR 4403 Sales Management
- MAR 4940 Marketing Internship/Practicum

GPA REQUIREMENTS

A 2.0 GPA in all major coursework at USF and an overall 2.0 GPA, including transfer work.

COURSE GRADE REQUIREMENT

A grade of "C" or higher (not C-) is required in MAR 3023 Basic Marketing. A minimum grade of C- is required for all Marketing coursework.

RESIDENCY REQUIREMENT

At least 15 credit hours of upper-level Marketing core courses must be taken in residence at USF Tampa.
SUPPLY CHAIN MANAGEMENT (SCMG) CONCENTRATION

TOTAL DEGREE HOURS: 120


The Supply Chain Management Concentration in Marketing focuses on managing the international flow of goods, services, finances, and information among organizations in global supply chains. Supply chain management includes business-to-business relationship management, global sourcing, inventory management, logistics, transportation, warehousing, facility management, and materials handling.

LIMITED ACCESS

THIS CONCENTRATION HAS ADDITIONAL ADMISSIONS REQUIREMENTS AS LISTED IN THIS SECTION.

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Students must satisfy the following criteria:

- Minimum of 60 semester hours of college credit earned.
- Minimum of a cumulative grade point average of 2.5 on all college-level work and a minimum of 2.0 on all credit attempted at USF, including any prior to renewal. NOTE: Beginning Fall 2013 the Muma College of Business will establish each fall a new minimum overall GPA required to satisfy the limited access GPA admission requirement. The minimum overall GPA will range between a 2.5 with a maximum required GPA of a 2.75. Students will be notified each fall as to the minimum entrance GPA required for the following fall semester. Notification will occur through Canvas and updated at the following link: http://www.usf.edu/business/undergraduate/requirements-general.aspx.
- 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.
- A minimum score of 550 on paper and pencil or 213 on computerized TOEFL is required, when applicable.

STATE MANDATED COMMON COURSE PREREQUISITES

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 state or 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 state or 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 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. 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 Muma 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 Muma College of Business and prepare a program plan for degree completion. Students transferring to the Muma College of Business with an A.S. in Business Administration may earn a major in Management only.

Florida College System students pursuing an Associate of Science (A.S.) program in any other discipline should contact the Office of Undergraduate Studies, SVC 2002, (813) 974-4051, for information regarding course transferability and degree articulation.
Completion of the following State Mandated Common Prerequisites (or equivalents) with a grade of C- or higher in each course and an overall 2.0 GPA:

- *ACG X021/ACG X022 Financial Accounting (or ACG X001 & ACG X011)
- *ACG X071 Managerial Accounting (or X301)
- CGS X100 Computers in Business (or acceptable substitute, i.e., CGS X100C, CGS X530, CGS X570, CGS X531, CGS X000, 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 STA X122 (although STA X023 and QMB X100 are preferred).

*Accounting majors must earn a C not C- in ACG 2021 & ACG 2071

**REQUIREMENTS FOR THE CONCENTRATION IN SUPPLY CHAIN MANAGEMENT**

**TOTAL MAJOR HOURS: 21**

**MAJOR REQUIREMENTS FOR THE B.S. DEGREE:**

**MAJOR CORE - 9 HOURS**

Required Marketing Courses (9 credit hours):

- MAR 3613 Marketing Research
- MAR 3823 Marketing Management
- MAR 4824 Marketing Management Problems

**MAJOR CORE (12 HOURS)**

Required Supply Chain Management Concentration Courses (12 credit hours):

- MAR 3202 Supply Chain Management
- MAR 4156 International Marketing
- MAR 4213 Logistics and Physical Distribution Management
- MAR 4940 Marketing Internship/Practicum

**GPA REQUIREMENTS**

A 2.0 GPA in all major course work at USF and an overall 2.0 GPA including transfer work.

**GRADING REQUIREMENT**

A grade of "C" or higher (not C-) is required in MAR 3023 Basic Marketing. A minimum grade of C- is required for all Marketing coursework.

**RESIDENCY REQUIREMENT**

At least 15 hours of upper-level Marketing core courses must be taken in residence at USF Tampa.
ADVISING INFORMATION

Location: C.H. Ferguson Hall (Business Administration Building) (BSN) 2102, (813) 974-4290 or schedule an advising appointment on-line: http://www.usf.edu/business/undergraduate/advising/.

Office Hours: 8am-6pm Monday-Thursday and 8am-4pm on Friday. Please refer to website for most current office hours information.

MARKETING FACULTY


SPORT AND ENTERTAINMENT MANAGEMENT (SEMC) CONCENTRATION

TOTAL DEGREE HOURS: 120

The Sport and Entertainment Management concentration in Marketing emphasizes business fundamentals of sports with specialized coursework tailored to sport marketing.

LIMITED ACCESS

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Students must satisfy the following criteria:

- Minimum of 60 semester hours of college credit earned.
- Minimum of a cumulative grade point average of 2.5 on all college-level work and a minimum of 2.0 on all credit attempted at USF, including any prior to renewal. NOTE: Beginning Fall 2013 the Muma College of Business will establish each fall a new minimum overall GPA required to satisfy the limited access GPA admission requirement. The minimum overall GPA will range between a 2.5 with a maximum required GPA of a 2.75. Students will be notified each fall as to the minimum entrance GPA required for the following fall semester. Notification will occur through Canvas and updated at the following link: http://www.usf.edu/business/undergraduate/requirements-general.aspx.
- 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.
- A minimum score of 550 on paper and pencil or 213 on computerized TOEFL is required, when applicable.
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 state or 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 state or 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 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. 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 Muma 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 Muma College of Business and prepare a program plan for degree completion. Students transferring to the Muma College of Business with an A.S. in Business Administration may earn a major in Management only.

Completion of the following State Mandated Common Prerequisites (or equivalents) with a grade of C- or higher in each course and an overall 2.0 GPA:

- *ACG X021/ACG X022 Financial Accounting (or ACG X001 & ACG X011)
- *ACG X071 Managerial Accounting (or X301)
- CGS X100 Computers in Business (or acceptable substitute, i.e., CGS X100C, CGS X530, CGS X570, CGS X531, CGS X000, 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 STA X122 (although STA X023 and QMB X100 are preferred).

*Accounting majors must earn a C not C- in ACG 2021 & ACG 2071

REQUIREMENTS FOR THE CONCENTRATION IN SPORT AND ENTERTAINMENT MANAGEMENT

TOTAL MAJOR HOURS: 21

MAJOR REQUIREMENTS FOR THE B.S. DEGREE:

MAJOR CORE - 9 HOURS

Required Marketing Courses (9 credit hours):

- MAR 3613 Marketing Research
- MAR 3823 Marketing Management
- MAR 4824 Marketing Management Problems
MAJOR CORE (12 HOURS)

Required Sport & Entertainment Management Concentration Courses (12 credit hours):

- MAR 4503 Buyer Behavior
- MAR 4940 Marketing Internship/Practicum or MAR 3400 Professional Selling
- SPB 4712 Sport Marketing
- SPB 4717 Social Media in Sport Marketing

GPA REQUIREMENTS

A 2.0 GPA in all major coursework at USF and an overall 2.0 GPA including transfer work.

COURSE GRADE REQUIREMENT

A grade of "C" or higher (not C-) is required in MAR 3023 Basic Marketing. A minimum grade of C- is required for all Marketing coursework.

RESIDENCY REQUIREMENT

At least 15 hours of upper-level Marketing core courses must be taken in residence at USF Tampa.

ADVISING INFORMATION

Location: C.H. Ferguson Hall (Business Administration Building) (BSN) 2102, (813) 974-4290 or schedule an advising appointment on-line: http://www.usf.edu/business/undergraduate/advising/.

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B.S. - PERSONAL FINANCE (PSF)

(CIP = 52.0801)

TOTAL DEGREE HOURS: 120

http://www.usf.edu/business/undergraduate/financial-planning/

The B.S. in Personal Finance offers a curriculum that concentrates on the analysis of personal financial data and the economic climate to prepare recommendations in the client’s best interest. The program examines professional issues in financial planning, including ethical considerations; regulation and certification requirements; written and oral communication skills; and professional responsibility. An emphasis is placed on analysis of data and critical thinking with regard to the client’s circumstances. The emphasis in this program is on applying and synthesizing financial planning concepts and techniques to a client’s circumstances and developing a course of action based on accepted financial planning methods:

1. To acquire the knowledge, empathy and understanding of a financial planning client,
2. To sharpen your ability to spot and evaluate financial planning issues in a client’s circumstances,
3. To think creatively and to solve problems in highly unstructured situations,
4. To effectively develop and integrate issues in a holistic financial plan, rather than focusing on individual planning aspects,
5. To enjoy the advantages of peer group review and feedback during the planning phases.
LIMITED ACCESS

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- Minimum of 60 semester hours of college credit earned.
- Minimum of a cumulative grade point average of 2.5 on all college-level work and a minimum of 2.0 on all credit attempted at USF, including any prior to renewal. NOTE: Beginning Fall 2013 the Muma 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 2.5 with a maximum required GPA of 2.75. Students will be notified each fall as to the minimum entrance GPA required for the following fall semester. Notification will occur through Canvas and updated at the following link: http://www.usf.edu/business/undergraduate/requirements-general.aspx.
- 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.
- A minimum score of 550 on paper and pencil or 213 on computerized TOEFL is required, when applicable.

STATE MANDATED COMMON COURSE PREREQUISITES

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.

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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 Muma College of Business and prepare a program plan for degree completion. Students transferring to the Muma College of Business with an A.S. in Business Administration may earn a major in Management only.

Florida College System students pursuing an Associate of Science (A.S.) program in any other discipline should contact the Office of Undergraduate Studies, SVC 2002, (813) 974-4051, for information regarding course transferability and degree articulation.

Completion of the following State Mandated Common Prerequisites (or equivalents) with a grade of C- or higher in each course and an overall 2.0 GPA:

- *ACG X021 or ACG X022 Financial Accounting or (ACG X001 & ACG X011)
- *ACG X071 Managerial Accounting or ACG X301
- CGS X100 Computers in Business or CGS X100C or CGS X530 or CGS X570 or CGS X060 or CGS X531 or CGS X000 or ISM X000 or CGS X518
• ECO X013 Principles of Macroeconomics
• ECO X023 Principles of Microeconomics
• MAC X233 Elementary Calculus or MAC X230
• STA X023 Introductory Statistics or QMB X100 or STA X122

*Accounting majors must earn a C not C- in ACG 2021 & ACG 2071

REQUIREMENTS FOR THE MAJOR IN PERSONAL FINANCE

TOTAL MAJOR HOURS: 21

MAJOR REQUIREMENTS FOR THE B.S. DEGREE:

MAJOR CORE (21 HOURS)

• FIN 3144 Financial Planning Fundamentals
• FIN 4128 Personal Financial Planning Process and Development
• FIN 4132 Estate Planning
• FIN 4504 Principles of Investments
• RMI 3011 Principles of Insurance
• RMI 4135 Retirement Planning and Employee Benefits
• TAX 4001 Concepts of Federal Income Taxation (PR: ACG 3103, ACG 3341)

GPA REQUIREMENTS

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.

COURSE GRADE REQUIREMENT

Students are required to earn a C- or higher in all finance courses that are counted toward the major requirements.

RESIDENCY REQUIREMENT

At least 15 hours must be taken in residence at USF Tampa.

RESEARCH OPPORTUNITIES

All undergraduate students in any degree program can participate in undergraduate research. There are a number of options to receive academic credit for a mentored research experience and to have the experience show on the official transcript. Students who wish to enroll in an undergraduate research course should consult with their academic advisor to understand how the credit will apply towards the degree requirements. If no credit is needed, students may be eligible to enroll in the 0-credit IDS 2912, IDS 4914 or IDH 4910 courses. These courses will not impact degree credits or GPA but will show on an official transcript and document the experience. The Office of Undergraduate Research will assist students in understanding the various course options.

INTERNSHIP OPPORTUNITIES

It is recommended that Finance students participate in an internship course (FIN 4940) as part of their plan of study. This course is offered on an S/U basis only.
ADVISING INFORMATION

Advising Services:

- Orientation for freshmen and transfer students.
- Academic advising and program information for pre-business students who have applied to the Muma College of Business and declared business as their intended major.
- Students who meet all Muma College of Business admission requirements.
- Evaluation of undergraduate transcripts for all declared and admitted business transfer students.
- Maintenance of academic advising records.
- Certification of graduation.

Location: C.H. Ferguson Hall (Business Administration Building) (BSN) 2102, (813) 974-4290 or schedule an advising appointment on-line: http://www.usf.edu/business/undergraduate/advising/.

Office Hours: 8am-6pm Monday-Thursday and 8am-4pm on Friday. Please refer to website for most current office hours information.

PERSONAL FINANCE FACULTY


MINOR IN ACCOUNTING (FOR BUSINESS MAJORS ONLY) (ACC)

TOTAL MINOR HOURS: 12


The Accounting minor is available to all Undergraduate Muma College of Business students, except those majoring in Accounting. All required 12 credit hours must be taken in residence at USF Tampa. A grade of C (not C-) or better must be earned in each of the four upper-level Accounting courses taken. A GPA of 2.0 or higher must be achieved in all minor coursework. All attempts will be included in the GPA unless grade forgiveness has been used. Only one grade forgiveness may be used in the minor.

REQUIREMENTS FOR THE MINOR IN ACCOUNTING (FOR BUSINESS MAJORS ONLY)

MINOR CORE (12 HOURS)

- ACG 3103 Intermediate Financial Accounting I*
- ACG 3341 Cost Accounting and Control I*
- ACG 3401 Accounting Information Systems*
- TAX 4001 Concepts of Federal Income Taxation*

*Students must take ACG 3103 during the first semester and at least one of the other three courses listed above during the same semester.

GPA REQUIREMENTS

A GPA of 2.0 or higher must be achieved in all minor coursework. All attempts will be included in the GPA unless grade forgiveness has been used. Only one grade forgiveness may be used in the minor.

GRADING REQUIREMENT

A grade of C (not C-) or better must be earned in each of the four upper-level Accounting courses taken.
RESIDENCY REQUIREMENT

All 12 credit hours must be taken in residence at USF Tampa.

OTHER REQUIREMENTS

The Lynn Pippenger School of Accountancy has additional admission requirements beyond the entry requirements to the Muma College of Business.

1. Successful completion of ACG 3103 Intermediate Financial Accounting I and ACG 3341 Cost Accounting and Control I or ACG 3401 Accounting Information Systems or TAX 4001 with a minimum grade of C, not C- and no more than two attempts cumulatively between ACG 3103 and the selected co-requisite course. “W” grades count as an attempt.

The pre-requisites for ACG 3103 and all accounting minor coursework 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 and ACG co-requisite within two cumulative attempts will be withdrawn from the minor, as appropriate. “W” grades count as an attempt.

Accounting courses must be no older than five (5) years to count for degree credit.

A student may petition the Director for an exception to the policy and the Director may grant or deny such a petition, at his/her discretion.

MINOR IN BUSINESS ANALYTICS AND INFORMATION SYSTEMS (FOR BUSINESS MAJORS ONLY) (BAIS)

TOTAL MINOR HOURS: 12

http://www.usf.edu/business/undergraduate/bais/minor.aspx

The Business Analytics and Information System minor is available to all undergraduate Muma College of Business students, except those majoring in Business Analytics and Information Systems. Nine hours of the required 12 credit hours must be taken in residence at USF Tampa. A GPA of 2.0 or higher must be achieved in all minor coursework.

REQUIREMENTS FOR THE MINOR IN BUSINESS ANALYTICS AND INFORMATION SYSTEMS (FOR BUSINESS MAJORS ONLY)

MINOR CORE (6 HOURS)

- ISM 3113 Systems Analysis and Design
- ISM 4212 Database Design and Administration

MINOR ELECTIVES (6 HOURS)

- 6 hours of approved MIS electives

GPA REQUIREMENTS

A grade point average of 2.0 or better must be achieved in the minor course work at USF and in all minor courses completed at other institutions.

RESIDENCY REQUIREMENT

At least nine (9) hours of the required 12 credit hours must be taken in residence at USF Tampa.
MINOR IN ECONOMICS (ECN)

TOTAL MINOR HOURS: 18

http://www.usf.edu/business/undergraduate/minor-economics.aspx

REQUIREMENTS FOR THE MINOR IN ECONOMICS

Nine hours of the required 18 credit hours must be taken in residence at USF Tampa. A GPA of 2.0 or higher must be achieved in all minor coursework. All attempts will be included in the GPA unless grade forgiveness has been used.

MINOR CORE (6 HOURS)

- ECO 2013 Economic Principles: Macroeconomics
- ECO 2023 Economic Principles: Microeconomics

MINOR ELECTIVES (12 HOURS)

Upper-level economics electives (may include QMB 3200)

Business majors can obtain a minor with nine (9) additional upper-level hours in economics beyond the foundation requirements for Business.

Before being recognized as a minor in Economics, a student must obtain program approval from the Economics Department Undergraduate Advisor.

ECO 4905 and ECO 4914 may not be counted toward the minor.

GPA REQUIREMENTS

A GPA of 2.0 or higher must be achieved in minor coursework at USF and in all minor courses completed at other institutions.

RESIDENCY REQUIREMENT

At least nine (9) hours must be taken in residence at USF Tampa.

MINOR IN ENTREPRENEURSHIP (FOR BUSINESS AND INDUSTRIAL ENGINEERING MAJORS ONLY) (ETB)

TOTAL MINOR HOURS: 12


This is an interdisciplinary entrepreneurship minor available to all USF undergraduate majors. This minor prepares graduates to enter their chosen major area of concentration in a variety of for-profit and not-for-profit positions. Students will demonstrate professional competencies in opportunity assessment, business planning, critical thinking, and the development and launch of new products and services.

REQUIREMENTS FOR THE MINOR IN ENTREPRENEURSHIP (FOR BUSINESS AND INDUSTRIAL ENGINEERING MAJORS ONLY)

The minor requires a total of 12 credit hours.
MINOR CORE (12 HOURS)

- ENT 4014 New Venture Formation
- ENT 3613 Creativity and Innovation in Entrepreneurial Firms or EIN 4200 Creativity in Technology
- Choose two (2) of the following courses:
  - EIN 4933 Selected Topics in Industrial Engineering: Product Development
  - ENT 4024 Small Business Management - Entrepreneurship
  - ENT 4424 Fundamentals of Venture Capital and Private Equity
  - MAN 4804 Small Business Management Counseling

GPA REQUIREMENTS

A GPA of 2.0 or better must be achieved in the course work at USF and in all minor courses completed at other institutions.

RESIDENCY REQUIREMENT

At least nine (9) hours of the required 12 credit hours must be taken in residence at USF Tampa.

MINOR IN ENTREPRENEURSHIP (FOR NON-BUSINESS AND NON-INDUSTRIAL ENGINEERING MAJORS ONLY) (ETN)

TOTAL MINOR HOURS: 15


This is an interdisciplinary entrepreneurship minor available to all USF undergraduate majors. This minor prepares graduates to enter their chosen major area of concentration in a variety of for-profit and not-for-profit positions. Students will demonstrate professional competencies in opportunity assessment, business planning, critical thinking, and the development and launch of new products and services.

REQUIREMENTS FOR THE MINOR IN ENTREPRENEURSHIP (FOR NON-BUSINESS AND NON-INDUSTRIAL ENGINEERING MAJORS ONLY)

The minor requires a total of 15 credit hours.

MINOR CORE (15 HOURS)

- ENT 3003 Principles of Business in Entrepreneurship
- ENT 4014 New Venture Formation
- ENT 3613 Creativity and Innovation in Entrepreneurial Firms or EIN 4200 Creativity in Technology
- Choose two (2) of the following courses:
  - EIN 4933 Special Topics in Industrial Engineering: Product Development
  - ENT 4024 Small Business Management - Entrepreneurship
  - ENT 4424 Fundamentals of Venture Capital and Private Equity
  - MAN 4804 Small Business Management Counseling

GPA REQUIREMENTS

A GPA of 2.0 or better must be achieved in the course work at USF and in all minor courses completed at other institutions.
## RESIDENCY REQUIREMENT

At least nine (9) hours of the required 15 credit hours must be taken in residence at USF Tampa.

## MINOR IN FINANCE (FOR BUSINESS MAJORS ONLY) (FIN)

### TOTAL MINOR HOURS: 12

[http://www.usf.edu/business/undergraduate/finance/minor.aspx](http://www.usf.edu/business/undergraduate/finance/minor.aspx)

The Finance minor is available to all Undergraduate Muma College of Business students, except those majoring in Finance. Nine hours of the required 12 credit hours must be taken in residence at USF Tampa. A grade of C- or better must be earned in each of the required Finance courses counted for the minor. A GPA of 2.0 or higher must be achieved in all minor coursework. All attempts will be included in the GPA unless grade forgiveness has been used.

### REQUIREMENTS FOR THE MINOR IN FINANCE (FOR BUSINESS MAJORS ONLY)

#### MINOR CORE (12 HOURS)

- FIN 4303 Financial Institutions and Markets
- FIN 4414 Advanced Corporation Finance
- FIN 4443 Financial Policies and Strategies*
- FIN 4504 Principles of Investments

*FIN 4443 is capstone course that should be taken in the final semester of the minor (or as close as possible).

### GPA REQUIREMENTS

A GPA of 2.0 or better must be achieved in the minor coursework at USF and in all minor courses completed at other institutions.

### GRADING REQUIREMENT

Students are required to earn a C- or higher in finance courses that are counted toward the minor requirements.

## RESIDENCY REQUIREMENT

At least nine (9) of the required 12 credit hours must be taken in residence at USF Tampa.

## MINOR IN MANAGEMENT (FOR BUSINESS MAJORS ONLY) (MAN)

### TOTAL MINOR HOURS: 12

The Management minor is available to all Undergraduate Muma College of Business students, except those majoring in Management. Nine hours of the required 12 credit hours must be taken in residence at USF Tampa. A GPA of 2.0 or higher must be achieved in all minor coursework.

### REQUIREMENTS FOR THE MINOR IN MANAGEMENT (FOR BUSINESS MAJORS ONLY)

#### MINOR CORE (12 HOURS)

- MAN 3240 Organizational Behavior Analysis
- MAN 3301 Human Resource Management
- MAN 4282 Organizational Assessment
- MAN 4737 Integrated Management Applications
GPA REQUIREMENTS
A GPA of 2.0 or better must be achieved in the minor course work at USF and in all minor courses completed at other institutions.

RESIDENCY REQUIREMENT
At least nine (9) hours of the required 12 credit hours must be taken in residence at USF Tampa.

MINOR IN MARKETING (FOR BUSINESS MAJORS ONLY) (MKT)
TOTAL MINOR HOURS: 12
http://www.usf.edu/business/undergraduate/marketing/minor.aspx

The Marketing minor is available to all Undergraduate Muma College of Business students, except those majoring in Marketing. Nine hours of the required 12 credit hours must be taken in residence at USF Tampa. A grade of C or higher (not C-) is required in MAR 3023 Basic Marketing. A minimum C-grade is required for all courses applicable to the Marketing minor. A GPA of 2.0 or higher must be achieved in all minor coursework.

REQUIREMENTS FOR THE MINOR IN MARKETING (FOR BUSINESS MAJORS ONLY)

MINOR CORE (12 HOURS)
- MAR 3823 Marketing Management
- Any three (3) upper-level Marketing courses with a MAR prefix (excluding MAR 4824)
  - MAR 3400 Professional Selling
  - MAR 3613 Market Research
  - MAR 3711 Sports Marketing
  - MAR 4156 International Marketing
  - MAR 4213 Logistics and Physical Distribution Management
  - MAR 4231 Retailing Management
  - MAR 4333 Promotion Management
  - MAR 4403 Sales Management
  - MAR 4453 Business to Business Marketing
  - MAR 4503 Buyer Behavior
  - MAR 4712 Healthcare Marketing

GPA REQUIREMENTS
A GPA of 2.0 or better must be achieved in the course work at USF and in all minor courses completed at other institutions.

GRADING REQUIREMENT
A grade of C or higher (not C-) is required in MAR 3023. A minimum grade of C- is required for all Marketing minor coursework.

RESIDENCY REQUIREMENT
At least nine (9) hours of the required 12 credit hours must be taken in residence at USF Tampa.
This certificate is designed exclusively for non-business majors. This program provides the information systems and business analytics knowledge - without having to pursue a business minor - that will help students in these and other disciplines land a job where they can apply their skills in a corporate systems or analytics setting. There are no prerequisites to begin the certificate and the sections set aside for this program are created with the non-business major in mind. While there is no specific point of entry for the program, there is a preferred sequence of coursework, starting with the Information Systems in Organizations class and ending with a specialized Business Intelligence course. All courses are available online.

**REQUIREMENTS FOR THE CERTIFICATE IN BUSINESS ANALYTICS AND INFORMATION SYSTEMS**

**CERTIFICATE CORE (15 HOURS)**

- ISM 3011 Information Systems in Organizations
- ISM 3113 Systems Analysis and Design (PR: ISM 3011; Co-PR: ISM 3232)
- ISM 3232 Business Application Development (Co-PR: ISM 3011)
- ISM 4212 Database Design and Administration (PR: ISM 3113)
- ISM 4930 Selected Topics in MIS: Excel and SQL for Business Analytics (PR: ISM 3011)

**GPA REQUIREMENTS**

A grade point average of 2.00 or better must be achieved in the certificate coursework at USF and in all certificate courses completed at other institutions.

**RESIDENCY REQUIREMENT**

At least 12 hours of the required 15 credit hours must be taken in residence at USF Tampa.

**CERTIFICATE IN SALES**

**TOTAL CERTIFICATE HOURS: 12**

The Sales certificate provides sales skills to students in departments across USF (e.g., Engineering, Health, Arts) that recognize the need for their students to learn the fundamentals of sales. The Sales certificate equips students with basic skills necessary for a career that involves professional selling.

**REQUIREMENTS FOR THE CERTIFICATE IN SALES**

**CERTIFICATE CORE (12 HOURS)**

- MAR 3023 Basic Marketing
- MAR 3400 Professional Selling
- MAR 4333 Promotion Management
- MAR 4403 Sales Management

**GPA REQUIREMENTS**

A minimum grade of C (not C-) is required in each course applied to the certificate.
RESIDENCY REQUIREMENT
At least 12 hours of the required 12 credit hours must be taken in residence at USF Tampa.

OTHER REQUIREMENTS
The Sales certificate is open to non-Business majors and non-degree seeking students.

CERTIFICATE IN UNDERGRADUATE BUSINESS
TOTAL CERTIFICATE HOURS: 15
http://www.usf.edu/business/undergraduate/general/certificate.aspx
This certificate is designed to provide non-business undergraduate students with a basic understanding of the business environment, providing them with a competitive advantage when seeking employment upon graduation.

REQUIREMENTS FOR THE CERTIFICATE IN UNDERGRADUATE BUSINESS
CERTIFICATE CORE (15 HOURS)
- ACG 3074 Managerial Accounting for Non-Business Majors
- CGS 2100 Computers in Business
- FIN 3005 Fundamentals of Business Finance
- MAN 3025 Principles of Management
- MAR 3023 Basic Marketing

GPA REQUIREMENTS
A grade point average of 2.0 or better must be achieved in the certificate course work at USF and in all certificate courses completed at other institutions.

COURSE GRADE REQUIREMENT
A minimum grade of C, not C- must be achieved in the certificate course work at USF and in all certificate courses completed at other institutions.

RESIDENCY REQUIREMENT
At least 12 hours of the required 15 credit hours must be taken in residence at USF Tampa.
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Contact Information

College of Education
4202 E. Fowler Avenue, EDU105
Tampa, FL 33620
(813) 974-3400
https://www.usf.edu/education/

Physical Location: The College of Education is located between Leroy Collins Blvd. to the west and Maple Drive to the east. We are located at the end of Apple Drive near the USF Library and Cooper Hall.

About the College

As the home to more than 2,200 students and 130 faculty members, the University of South Florida College of Education values high-quality education and excellence in research, teaching and learning. Our college is nationally accredited by the Council for the Accreditation of Educator Preparation (CAEP) and our educator preparation programs are fully approved by the Florida Department of Education.

At a time when the skills and pedagogy of classroom teachers and school administrators is more important than ever, the USF College of Education offers state-of-the-art teacher training and collaborative and collegial graduate studies designed to empower educational leaders. Working closely with our partners in the school districts across the Tampa Bay region, we seek to work with our community to extend proven educational initiatives and discover new ways of preparing life-long learners in an era of increasing access to knowledge and technology.

Mission, Vision, Values

Mission

The Mission of the College of Education is to promote transformative education and social justice through rigorous research, innovative teaching, as well as locally and globally engaged partnerships.

Vision

The USF College of Education envisions itself as a leader in regional, national and international education. Leadership in education encompasses:

- Academic excellence
- Research, scholarship, and inquiry that renews the educational process.
- Collaboration that serves communities, institutions, and individuals.
- Preparation that builds on academic excellence, scholarship, clinical practice, and collaboration and that contributes to a just and productive society.

Accreditation

The USF College of Education is proud to be nationally accredited by the Council for the Accreditation of Educator Preparation (CAEP). CAEP accreditation is a voluntary process designed to ensure high-quality practices through a rigorous evaluation process consisting of self-evaluation, on-site accreditation evaluators and ongoing assessment.

Accredited Programs The School Psychology Program is accredited by the American Psychological Association Committee on Accreditation, and is recognized by the National Association of School Psychologists.

Approved Programs Approved Teacher Education Programs: Educator Preparation Programs in the College of Education are approved by the Florida Department of Education.
College-Level Requirements

Admission Requirements

Educator Preparation Programs

Follow these simple steps to complete the College of Education's undergraduate admissions process for all undergraduate educator preparation programs:
https://www.usf.edu/education/undergraduate/academic-advising/admissions-requirements.aspx

1. Submit an application to the University of South Florida.
2. Submit an application to the College of Education. (https://www.usf.edu/education/undergraduate/academic-advising/coedu-applications.aspx)
   a. Requires an overall GPA of 2.50 at the time of application
   b. Requires appropriate prerequisite coursework must be fulfilled for admission to the College of Education. Learn more by reviewing the appropriate Prerequisite Checklists (https://www.usf.edu/education/undergraduate/academic-advising/prerequisite-checklists.aspx)
   c. Requires submission of passing scores on the Florida Teacher Certification Exam's General Knowledge Test (https://www.usf.edu/education/resources-for-educators/teacher-certification/general-knowledge-test.aspx)
3. Seek advising with Student Academic Services at https://www.usf.edu/education/undergraduate/academic-advising/index.aspx

Exercise Science Program

The Exercise Science program is a limited access program. This means that enrollment is limited to a select population of students each fall semester. Students should take the following steps to be considered for the program:

1. Apply to the University of South Florida.
2. Submit a College of Education application for the Exercise Science program, including official transcripts between June 1st and July 15th for fall admission.
3. It is highly recommended students interested in this competitive program meet with an academic advisor in Student Academic Services to review detailed information on admission requirements found at the following link: https://www.usf.edu/education/undergraduate/academic-advising/coedu-applications.aspx

Program-Specific Requirements

Background Checks and Fingerprinting

All students seeking admission to teacher preparation programs will be required to undergo a background check and fingerprinting. Depending upon the outcome of the background check, students may be informed they cannot be placed in a particular school district. As each program determines the school district(s) in which to place their students, past legal history may impact a student’s ability to enter field experience and continue in an educator preparation program. Please be advised that program and/or course requirements and fingerprinting/background check procedures are subject to change per state legislative mandates, Florida State Department of Education program approval standards, accreditation criteria, and school district policy and procedures. Students can learn more about fingerprinting from Student Academic Services.

Insurance

Students are strongly encouraged to purchase liability insurance before entering any course with field experience. Student Academic Services can provide resources to students regarding coverage options.

Exercise Science Program

The Exercise Science program is a limited access program meaning that enrollment is limited to 30 students each fall semester. Selection of the 30 students is based on the following criteria:

1. An overall GPA of 2.50. This is a College of Education criterion.
2. Completion of all the following "common statewide prerequisites" for exercise science programs by the spring semester prior to fall admission with a C- or higher.
3. Students with the top 30 composite GPAs will be selected for admission into the program. A composite GPA score will be calculated for each student by adding 30 percent of the overall GPA and 70 percent of the common statewide prerequisite GPA.

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 Enhanced General Education requirements for the University of South Florida or for the Florida public college or university in which the student took his or her Enhanced General Education requirements.

Graduation Requirements
1. Verify you have met all the degree requirements for graduation using DegreeWorks.
2. You need to have all courses completed before applying for graduation.
   a. You need a 2.5 overall GPA (Grade Point Average).
3. Get graduation information to apply for graduation and participate in the graduation ceremonies (https://www.usf.edu/education/academics/graduation-information.aspx).
4. For more information, see https://www.usf.edu/education/undergraduate/academic-advising/graduation-requirements.aspx.

Time Limits for Coursework applied toward Graduation
The College of Education may accept professional education and specialization coursework completed at this university or at other accredited institutions as follows:
1. Courses completed within the last five years may be accepted toward graduation.
2. Courses completed over five years but less than ten years ago must have the approval of the chairperson from the department in which the equivalent course is taught.
3. Courses completed ten years ago or longer will count as elective credit only toward graduation.

Students seeking admission into the College of Education who have already taken courses in education should speak with an academic advisor in Student Academic Services to learn more about how they might apply to their degree.

Baccalaureate-Level Degree Programs
Global Pathways
https://www.usf.edu/gcp/students/index.aspx

A Global Pathway is an undergraduate major or degree program that has significant global content. Global Pathways provide students with the opportunity to practice and apply global competencies through the major or degree program. The following programs are designated as Global Pathway Programs:

Global Studies in Education Minor

Exceptional Student Education
https://www.usf.edu/education/areas-of-study/exceptional-student-education/
Bachelor of Science

Early Childhood Education: Pre Kindergarten/Primarys
https://www.usf.edu/education/areas-of-study/early-childhood-education/

The program embraces a pedagogy of social justice with community-engaged scholarship and active participation in linguistically, culturally, and socio-economically diverse settings. The program prepares students to acquire the skills and dispositions necessary to advocate for positive change in the lives of children, families, and communities.

Elementary Education
http://www.usf.edu/education/areas-of-study/elementary-education/

The B.S. in Elementary Education Program develops teachers who possess sound instructional practices as well as an inquiry mindset that allows teachers to differentiate instruction to enhance student learning.

English Education with ESOL Endorsement
https://www.usf.edu/education/areas-of-study/english-education/

The Bachelor of Science degree in English Education prepares students to develop content knowledge related to structures and functions of language, diverse literatures (including print and non-print texts and multimedia), adolescent literacy and writing theories and processes. This program is a joint program between the College of Education and the College of Arts and Sciences.

Social Science Education
https://www.usf.edu/education/areas-of-study/social-science-education/

The Social Science Education Program engages students with methods of inquiry and pedagogy in the social studies. Attention is given to both an interdisciplinary curriculum and to individual social disciplines including history, geography, civics and government, economics, anthropology, psychology, sociology and related fields of study.

Bachelor of Arts or Bachelor of Science

Exceptional Student Education with ESOL & Reading Endorsement
https://www.usf.edu/education/areas-of-study/exceptional-student-education/

The Exceptional Student Education program prepares teachers to work with children who have emotional and behavioral disorders, intellectual disabilities, and specific learning disabilities. The undergraduate program is a state-approved program that leads to certification in Exceptional Student Education and an endorsement in teaching English Speakers of a Second Language (ESOL).

Mathematics Education
https://www.usf.edu/education/areas-of-study/mathematics-education/

The Bachelor of Science (B.S.) in Mathematics Education is a 120 credit hour program. The program explores educational foundations, methods, and theory and practice of teaching mathematics at grades 6-12. It is designed to prepare effective teachers of middle and high school mathematics who are knowledgeable, reflective, caring, and are able to meet the needs of a diverse student population.

Physical Education
https://www.usf.edu/education/areas-of-study/physical-education/

The Bachelor of Science in Physical Education is designed for those who wish to qualify for Florida certification in teaching Physical Education for students in Kindergarten through 12th grade. This degree is a two-year program of study.

Science Education
https://www.usf.edu/education/areas-of-study/science-education/

The Bachelor of Science (B.S.) in Science Education explores educational foundations and methods to prepare educators in middle and secondary schools. It also explores the theory and practice of teaching science education. The objective is to prepare reflective and caring educators.
Minors

Foreign Language Education

The minor in Foreign Language Education is for students who are pursuing a degree in another field and who have an interest in teaching a foreign language. The courses in the minor give students a foundation in methods of teaching a foreign or second language. Completing this does not result in Florida teaching certification.

Global Studies in Education

Students pursuing a minor in Global Studies in Education will gain knowledge about the relationships between education and the increasingly globalized world and learn how to apply this knowledge within diverse fields and professional settings. This interdisciplinary minor integrates educational, sociological, and psychological perspectives.

Science of Physical Activity

Students pursuing a minor in Science of Physical Activity gain experience working with physically active individuals, and learn skills that translate to work in after-school programs, recreation environments, or fitness centers. Completing this minor does not result in Florida teaching certification.

Concentrations

A concentration is any organized set of courses that is offered as part of a major and enhances or complements the degree program to be awarded in a manner that leads to specific educational or occupational goals, and/or from different disciplines that provide an interdisciplinary focus.

MATHEMATICS EDUCATION
- Middle School Mathematics

PHYSICAL EDUCATION
- Exercise Science

SCIENCE EDUCATION
- Biology Education
- Chemistry Education
- Physics Education

Undergraduate Advising Information

Contact Information

USF College of Education
Student Academic Services (SAS)
4202 East Fowler Avenue, EDU 106
Tampa, FL 33620
Phone: 813-974-2979
https://www.usf.edu/education/undergraduate/academic-advising/index.aspx

Office Hours: Monday - Friday, 8:00 a.m. - 5:00 p.m.

The Student Academic Services (SAS) office provides academic advising to prospective students, newly admitted students, and continuing students in undergraduate and Master of Arts in Teaching programs within the College of Education. Our office is committed to serving the University of South Florida’s mission, and the College of Education’s mission: collaborating with our academic departments, and empowering our students to meet their academic and professional goals.
To make a face-to-face appointment with an Academic Advisor:

- If you are an accepted or currently registered student at USF, use escheduler at https://usfweb.usf.edu/escheduler/student.aspx (requires login).
- If you ARE NOT a USF student, use the advisor appointment system at https://usfweb.usf.edu/escheduler/NonStudentlogin.aspx
Early Childhood Education is a field of study that includes the teaching and learning of young children. This includes the preparation of prospective teachers through both coursework and extensive field experiences in various early childhood settings to enable them to integrate theory with teaching practices. Successful completion of this state-approved program will make the prospective teachers be eligible for the Florida Early Childhood Teaching Certification Pre-Kindergarten/Primary (age 3 – grade 3). The objective of the program is to provide prospective teachers with the necessary knowledge, skills, and dispositions required to teach Pre-K through 3rd grade students, with a particular focus on understanding developmentally appropriate practice; providing inclusive, differentiated, and culturally responsive instruction; utilizing technology to enhance student learning; and demonstrating on-going professional development.

STATE MANDATED COMMON COURSE PREREQUISITES

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 General Education 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.

Transfer students are also required to comply with the immunization, foreign language, and continuous enrollment policies of the university.

Students should complete the following prerequisite courses 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 in prerequisite courses.

- EDF X005 Introduction to the Teaching Profession

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.

REQUIREMENTS FOR THE MAJOR IN EARLY CHILDHOOD EDUCATION: PRE KINDERGARTEN/PRIMARY

TOTAL MAJOR HOURS: 72

MAJOR REQUIREMENTS FOR THE B.S. DEGREE:

MAJOR CORE (72 HOURS)

Professional Education Core (30 credit hours):

- EDF 4124 Child Growth and Learning
- EEC 4941 Field Experience I
- EEC 4942 Field Experience II
- EEC 4943 Field Experience III
- EEC 4940 Internship: Early Childhood
EEC 4936 Senior Seminar in Early Childhood Education
TSL 4080 ESOL I - Curriculum and Pedagogy of ESOL
TSL 4251 ESOL 3 - Applying Linguistics to ESOL Teaching and Testing

Specialization (42 credit hours):

EEC 4008 Teaching Literature and Writing in Early Childhood
EEC 4203 Programs for Young Children
EEC 4613 Assessment and Evaluation of Young Children
EEC 4211 Science for Young Children
EEC 4212 Integrated Curriculum: Social Sciences/Humanities & Art
EEC 4303 Creative and Affective Experiences for Young Children
EEC 4307 Cognitive Experiences for Young Children
EEC 4321 Mathematics for Young Children
EEC 4408 Child, Family & Teacher Relations
EEC 4604 Classroom Management and Guidance of Young Children
EEC 4614 Current Trends and Issues in Early Childhood Education
EEC 4706 Language and Emerging Literacy
EEX 4201 Young Children with Special Needs
RED 4312 Emergent Literacy Strategies and Assessment

Admission Requirements

Students seeking admission to this program must meet the following Department of Education's Teacher Educator Certification requirements:

1. Earn a 2.5 overall GPA;
2. Complete all general education and state mandated common prerequisite courses with a C- or higher in each;
3. Pass all sections of the General Knowledge Test. Information can be found at http://www.usf.edu/education/academics/teacher-certification/general-knowledge-test.asp;
4. Submit an application to Student Academic Services, EDU 106, 813-974-2979.

Applications can be found at http://www.usf.edu/education/advising/undergraduate/coedu-applications.aspx.

Requirements after Admission into the Elementary and Early Childhood Programs:

1. Maintain at least a 2.50 GPA in professional education and specialization coursework. If a student falls below 2.50 GPA he/she may be dismissed and/or may be required to meet with the departmental Professional Standards Committee.
2. Receive a grade of C- or higher in all required courses to progress to the following semester or he/she may be dismissed and/or required to meet with departmental Professional Standards Committee.
3. Pay for costs in addition to tuition, fees, and books such as:
   - Chalk and Wire access codes that are purchased at the bookstore
   - Transportation to and from school sites required in courses and internships
   - Criminal background checks and fingerprinting for internships
   - Assignments in some classes (e.g., printing/binding of group project reports, academic and professional portfolio, digital recording equipment, etc.)
Early Childhood with ESOL Endorsement

Students may complete a state-approved program to be eligible for licensure in Early Childhood Education Pre-Kindergarten/Primary (age 3 - Grade 3). The current program of studies includes both coursework and extensive field experiences in early childhood settings to enable students to integrate theory with teaching practice. Graduation is dependent upon successful completion of the required courses, associated internships, and critical tasks demonstrating the Florida Educator Accomplished Practices. Early Childhood majors will be eligible for certification in Pre-Kindergarten/Primary (age 3 - Grade 3). Students must pass all Chalk and Wire assignments and upload every assignment to their Chalk and Wire account in order to graduate from the program.

The College of Education offers a full ESOL Endorsement for all Early Childhood Education major graduates. The special requirements for ESOL endorsement through infusion are as follows:

1. Successful completion of TSL 4080 and TSL 4251, with a minimum grade of 70 percent or better on all sections of the ESOL Comprehensive Exam administered in the two ESOL courses;
2. Successful completion of a 20-hour early ESOL field experience in TSL 4080;
3. Successful completion of a late ESOL field experience where students plan, implement, and evaluate lessons for one or more ESOL students over 10 days; and
4. Successful completion of all Chalk and Wire assignments as required, including from the two ESOL courses and the ESOL-infused classes.

GPA REQUIREMENTS

Once admitted, students must maintain a 2.5 overall GPA and earn a 2.5 in all upper-level coursework in the major including Core and Specialization courses.

COURSE GRADE REQUIREMENT

Students must earn a C- or higher in all upper-level courses in the major.

RESEARCH OPPORTUNITIES

All undergraduate students in any degree program can participate in undergraduate research. There are a number of options to receive academic credit for a mentored research experience and to have the experience show on the official transcript. Students who wish to enroll in an undergraduate research course should consult with their academic advisor to understand how the credit will apply towards the degree requirements. If no credit is needed, students may be eligible to enroll in the 0-credit IDS 2912, IDS 4914 or IDH 4910 courses. These courses will not impact degree credits or GPA but will show on an official transcript and document the experience. The Office of Undergraduate Research will assist students in understanding the various course options.

INTERNSHIP OPPORTUNITIES

All students will enroll in multiple clinical experiences throughout the program which will provide them with the opportunity to engage in the practice of teaching.

ADVISING INFORMATION

Students are encouraged to seek advising in Student Academic Services, EDU 106, 813-974-2979. To schedule an appointment visit us at http://www.usf.edu/education/advising/undergraduate/.

EARLY CHILDHOOD EDUCATION: PRE KINDERGARTEN/PRIMARY FACULTY

Chairpersons: M. Berson, J. Schneider; Professors: I. Berson, Associate Professors: J. Blank, S. Han; Affiliate Faculty: V. Damjanovic.
B.S. - ELEMENTARY EDUCATION (BEE)

(CIP = 13.1202)
TOTAL DEGREE HOURS: 120

http://www.coedu.usf.edu/main/departments/ce/elementary_education/bachelors.php

This program is designed for students who wish to pursue a career as an elementary classroom teacher. The program of study includes both coursework and extensive field experience in elementary school settings to enable the students to integrate theory with teaching practice.

STATE MANDATED COMMON COURSE PREREQUISITES

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 General Education 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.

Transfer students are also required to comply with the immunization, foreign language, and continuous enrollment policies of the university.

Students should complete the following prerequisite courses 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 in prerequisite courses.

- EDF X005 Introduction to the Teaching Profession (3)

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.

REQUIREMENTS FOR THE MAJOR IN ELEMENTARY EDUCATION

TOTAL MAJOR HOURS: 75

MAJOR REQUIREMENTS FOR THE B.S. DEGREE:

MAJOR CORE (75 HOURS)

Professional Education (45 credit hours):

- EDP 3273 Learning and Development within a School Context
- EDF 4430 Measurement for Teachers
- EEX 4070 Integrating Exceptional Students in the Regular Classroom
- TSL 4080 ESOL 1 - Curriculum and Pedagogy of ESOL
- TSL 4081 ESOL 2 - Literacy Development in English Language Learners
- TSL 4251 ESOL 3 - Applying Linguistics to ESOL Teaching and Testing
- EDE 4941 Childhood Education Internship Level I
- EDE 4942 Childhood Education Internship Level II
- EDE 4943 Alternative Setting Field Experience
- EDE 4944 Childhood Education Internship Level III
- EDE 4940 Internship: Elementary Education
- EDE 4802 The Teacher as Researcher
Specialization (30 credit hours):

- EDE 4301 Instructional Planning for Diverse Learners
- EDE 4504 Creating and Differentiating Learning Environments
- LAE 4311 Teaching Print and Multimodal Texts in Elementary Education
- LAE 4424 Teaching Children's Literature
- MAE 4310 Teaching Elementary School (K-6) Mathematics I
- MAE 4326 Teaching Elementary School (K-6) Mathematics II
- RED 4312 Emergent Literacy Strategies and Assessment
- RED 4724 Intermediate Literacy Strategies and Assessment I
- SCE 4310 Teaching Elementary School Science
- SSE 4313 Teaching Elementary (K-6) Social Studies

Zero-Credit Hour Undergraduate Research Experience:

- IDS 2912 Undergraduate Research Experience
- IDS 4914 Advanced Undergraduate Research Experience

Admission Requirements

Students seeking admission to this program must meet the following Department of Education's Teacher Educator Certification requirements:

1. Earn a 2.5 overall GPA;
2. Complete all general education and state mandated common prerequisite courses with a C- or higher in each;
3. Pass all sections of the General Knowledge Test. Information can be found at http://www.usf.edu/education/academics/teacher-certification/general-knowledge-test.aspx;
4. Submit an application to Student Academic Services, EDU 106, 813-974-2979.

Applications can be found at http://www.usf.edu/education/advising/undergraduate/coedu-applications.aspx.

Requirements after Admission into the Elementary and Early Childhood Programs:

1. Maintain at least a 2.50 GPA in professional education and specialization coursework. If a student falls below 2.50 GPA he/she may be dismissed and/or may be required to meet with the departmental Professional Standards Committee.
2. Receive a grade of C- or higher in all required courses to progress to the following semester or he/she may be dismissed and/or required to meet with departmental Professional Standards Committee.
3. Pay for costs in addition to tuition, fees, and books such as:
   - Chalk and Wire access codes that are purchased at the bookstore
   - Transportation to and from school sites required in courses and internships
   - Criminal background checks and fingerprinting for internships
   - Assignments in some classes (e.g., printing/binding of group project reports, academic and professional portfolio, digital recording equipment, etc.)
Elementary Education with ESOL Endorsement

Students may complete a state-approved program to be eligible for certification in Elementary Education (Grades K-6). Degree and certification requirements are subject to change in accordance with state mandates. The current program of studies includes both coursework and extensive field experience in elementary school settings to enable students to integrate theory with teaching practice. All elementary education students are required to demonstrate the Accomplished Practices (APs) through core assignments in courses and internships that are submitted to the Chalk and Wire electronic portfolio system. Students must pass all Chalk and Wire assignments and upload every assignment to their Chalk and Wire account in order to graduate from the program.

The College of Education offers a full ESOL Endorsement for all Elementary Education major graduates. The special requirements for ESOL endorsement through infusion are as follows:

1. Successful completion of TSL 4080, TSL 4081 and TSL 4251, with a minimum grade of 70 percent or better on all three sections of the ESOL Comprehensive Exam administered in the three ESOL courses;
2. Successful completion of a 20-hour early ESOL field experience in TSL 4080;
3. Successful completion of a late ESOL field experience where students plan, implement, and evaluate lessons for one or more ESOL students over 10 days; and
4. Successful completion of all Chalk and Wire assignments as required, including from the three ESOL courses and the ESOL-infused classes.

GPA REQUIREMENTS

Once admitted, students must maintain a 2.5 overall GPA and earn a 2.5 in all upper-level coursework in the major including Core and Specialization courses.

COURSE GRADE REQUIREMENT

Students must earn a C- or higher in all upper-level courses in the major.

RESEARCH OPPORTUNITIES

Preservice teachers engage in practitioner research or systematic study of their practice, each semester in the elementary education program. In spring of the junior year they are enrolled in IDS 2912 Undergraduate Research Experience and in spring of their senior year they are enrolled in IDS 4914 Advanced Undergraduate Research Experience.

INTERNERNSHIP OPPORTUNITIES

All students will enroll in multiple clinical experiences throughout the program which will provide them with the opportunity to engage in the practice of teaching.

ADVISING INFORMATION

Students are encouraged to seek advising in Student Academic Services, EDU 106, 813-974-2979. To schedule an appointment visit us at http://www.usf.edu/education/advising/undergraduate/.

ELEMENTARY EDUCATION FACULTY

Co-Chairperson: J. Schneider and M. Berson; Associate Professors: R. Burns, D. Dennis, J. Jacobs Assistant Professor: S. van Ingen; Instructors: M. Krause, R. Latzke, K. Tricarico.
The English Education Program is designed to prepare students to develop content knowledge related to structures and functions of language, diverse literatures (including print and non-print texts and multimedia), adolescent literacy and writing theories and processes. This program is a joint program between the College of Education and the College of Arts and Sciences. Students will learn pedagogical content knowledge, including how to select English Language Arts curriculum, how to implement instructional practices like discussion and peer review, how to assess student compositions and how to reflect on their pedagogical practices.

STATE MANDATED COMMON COURSE PREREQUISITES

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 General Education 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.

Transfer students are also required to comply with the immunization, foreign language, and continuous enrollment policies of the university.

Students should complete the following prerequisite courses 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 in prerequisite courses.

- EDF X005 Introduction to the Teaching Profession (3)
- SPC X017 or SPC X608 Public Speaking (3)
- ENG X101*** (3)
- ENG X102*** (3)
- LIT XXXX or AML XXXX or ENL XXXX (3)

***ENC X101 and ENC X102 or equivalent composition.

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.

REQUIREMENTS FOR THE MAJOR IN ENGLISH EDUCATION WITH ESOL ENDORSEMENT

TOTAL MAJOR HOURS: 68

MAJOR REQUIREMENTS FOR THE B.S. DEGREE:

MAJOR CORE (68 HOURS)

Professional Education:

- EDF 3604 Schools and Society
- EDF 3214 Human Development and Learning
- EDF 4430 Measurement for Teachers
- EEX 4070 Integrating Exceptional Students in the Regular Classroom
• FLE 4317 Teaching Students with Limited English Proficiency
• FLE 4316 Language Principles and Acquisition
• RED 4335 Teaching Reading in Secondary English Curriculum
• ESE 4322 Classroom Management for Diverse School and Society

Specialization:
• ENC 3310 Expository Writing

One of the following:
• LAE 4469 Teaching World Literature to Middle and Secondary Students
• LIT 3103 Great Literature of the World
• WST 4410 Postcolonial Women Writers

One of the following:
• AML 3031 American Literature from the Beginnings to 1860
• AML 3032 American Literature from 1860 to 1912
• AML 3051 American Literature from 1912 to 1945

One of the following:
• ENL 3015 British Literature to 1616
• ENL 3230 British Literature 1616-1780
• ENL 3251 British Literature 1780-1900
• ENL 3273 British Literature 1900-1945

One of the following:
• LIT 3383 The Image of Women in Literature
• LIT 4386 British and American Literature by Women

One of the following:
• ENG 4060 History of the English Language
• LIN 3010 Introduction to Linguistics

One of the following:
• LIN 2670 English Grammar and Usage
• LIN 4671 Traditional English Grammar
• LIN 4680 Structure of American English

Additional Specialization:
• LAE 4323 Methods of Teaching English: Middle School (Fall Semester Only)
• LAE 4335 Methods of Teaching English: High School (Spring Semester Only)
• LAE 4464 Adolescent Literature for Middle and Secondary Students
• LAE 4530 Methods of Teaching English: Practicum (Fall Semester Only)
• LAE 4936 Senior Seminar in English Education
• LAE 4940 Internship: English Education
Admission Requirements

Students seeking admission to this program must meet the following Department of Education's Teacher Educator Certification requirements:

1. Earn a 2.5 overall GPA;
2. Complete all general education and state mandated common prerequisite courses with a C- or higher in each;
3. Pass all sections of the General Knowledge Test. Information can be found at http://www.usf.edu/education/academics/teacher-certification/general-knowledge-test.aspx;
4. Submit an application to Student Academic Services, EDU 106, 813-974-2979.

Applications can be found at http://www.usf.edu/education/advising/undergraduate/coedu-applications.aspx.

Recommended Courses:

- Literature Course (3 hours) - select from LIT, AML, ENL (LIT 2000 or ENL 3334 recommended)
- English Electives (9 hours) - to include advanced composition and mediacy (CRW 2100 or CRW X111 and MMC 2100 or ENC X310 and LIT X301 recommended)

In addition to the courses listed, 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:

- 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;
- A 20-hour early ESOL field experience in FLE 4317;
- A late ESOL field experience where students plan, implement, and evaluate lessons for one or more ESOL students over 10 days;
- 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.

GPA REQUIREMENTS

Once admitted, students must maintain a 2.5 overall GPA and earn a 2.5 in all upper-level coursework in the major including Core and Specialization courses.

COURSE GRADE REQUIREMENT

Students must earn a C- or higher in all upper-level courses in the major.

RESEARCH OPPORTUNITIES

All undergraduate students in any degree program can participate in undergraduate research. There are a number of options to receive academic credit for a mentored research experience and to have the experience show on the official transcript. Students who wish to enroll in an undergraduate research course should consult with their academic advisor to understand how the credit will apply towards the degree requirements. If no credit is needed, students may be eligible to enroll in the 0-credit IDS 2912, IDS 4914 or IDH 4910 courses. These courses will not impact degree credits or GPA but will show on an official transcript and document the experience. The Office of Undergraduate Research will assist students in understanding the various course options.

INTERNSHIP OPPORTUNITIES

All students will enroll in multiple clinical experiences throughout the program which will provide them with the opportunity to engage in the practice of teaching.
ADVISING INFORMATION

Students are encouraged to seek advising in Student Academic Services, EDU 106, 813-974-2979. To schedule an appointment visit us at http://www.usf.edu/education/advising/undergraduate/.

ENGLISH EDUCATION WITH ESOL ENDORSEMENT FACULTY

Chairpersons: M. Berson, J. Schneider; Professor: J.F. Kaywell; Emeritus Professor: J.H. Applegate; Associate Professor: P. Daniel; Assistant Professor: M. Sherry.

B.A. OR B.S. - EXCEPTIONAL STUDENT EDUCATION WITH ESOL & READING ENDORSEMENT (BEX)

(CIP = 13.1001)
TOTAL DEGREE HOURS: 120

http://www.coedu.usf.edu/main/departments/sped/Bachelor/BADegree.html

Certified Global Pathway Program

The undergraduate program is a state-approved program that leads to certification in Exceptional Student Education (ESE).

This program has been certified as a Global Pathway. Global Pathway programs have significant global content and align with the goals of USF’s Quality Enhancement Plan, the Global Citizens Project. Students in Global Pathway programs are well positioned to earn the Global Citizen Award and become eligible to apply for a study abroad scholarship offered by the Global Citizens Project.

STATE MANDATED COMMON COURSE PREREQUISITES

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 General Education 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.

Transfer students are also required to comply with the immunization, foreign language, and continuous enrollment policies of the university.

Students should complete the following prerequisite courses 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 in prerequisite courses.

- EDF X005 Introduction to the Teaching Profession (3)

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.
REQUIREMENTS FOR THE MAJOR IN EXCEPTIONAL STUDENT EDUCATION
WITH ESOL & READING ENDORSEMENT

TOTAL MAJOR HOURS: 66

MAJOR REQUIREMENTS FOR THE B.A. OR B.S. DEGREE:

MAJOR core (66 hours):

Professional Education Core (27 credit hours):
- EEX 4942 Practicum in Exceptional Student Education
- EDP 3271 Child Development within a School Context
- EDP 3272 Learning within a School Context
- EDP 4275 Enhancing Children's Learning and Development within a School Context
- EDF 3604 Schools and Society
- EDF 4430 Measurement for Teachers
- FLE 4316 Language Principles and Acquisition
- FLE 4317 Teaching Students with Limited English Proficiency
- EEX 4944 Final Internship

Exceptional Student Education Core (39 credit hours):
Students seeking the B.S. degree with certification in Exceptional Student Education are required to take the following courses:
- EEX 4202 Context and Foundations
- EEX 4240 Beginning to Teach
- EEX 4241 Creating Effective Learning Environments
- EEX 4242 Enhancing Expertise in Teaching and Instructional Decision Making
- EEX 4244 Becoming a Special Education Teacher
- EEX 4742 Narrative Perspectives on Exceptionality: Cultural and Ethical Issues
- LAE 4311 Teaching Print and Multimodal Texts in Elementary Education
- MAE 4310 Teaching Elementary School (K-6) Mathematics I
- RED 4312 Emergent Literacy Strategies and Assessments
- RED 4724 Intermediate Literacy Strategies and Assessments I

Admission Requirements
Students seeking admission to this program must meet the following Department of Education’s Teacher Educator Certification requirements:
1. Earn a 2.5 overall GPA;
2. Complete all general education and state mandated common prerequisite courses with a C- or higher in each;
3. Pass all sections of the General Knowledge Test. Information can be found at http://www.usf.edu/education/academics/teacher-certification/general-knowledge-test.aspx;
4. Submit an application to Student Academic Services, EDU 106, 813-974-2979.

Applications can be found at http://www.usf.edu/education/advising/undergraduate/coedu-applications.aspx.
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:

- 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;
- A 20-hour early ESOL field experience in FLE 4317;
- A late ESOL field experience where students plan, implement, and evaluate lessons for one or more ESOL students over a 10 days; and
- 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:

- Completion of specialized courses with a grade of C or S;
- Completion of RED 4312, RED 4724, and LAE 4311 with a grade of C;
- A 60 hour field experience with a grade of S where students demonstrate application of all reading competencies, and
- A Reading Endorsement binder containing the Demonstration of Accomplishment Documentation Form and supporting artifacts.

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.

GPA REQUIREMENTS

Once admitted, students must maintain a 2.5 overall GPA and earn a 2.5 in all upper-level coursework in the major including Core and Specialization courses.

COURSE GRADE REQUIREMENT

Students must earn a C- or higher in all upper-level courses in the major.

GRADING REQUIREMENT

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.

RESEARCH OPPORTUNITIES

All undergraduate students in any degree program can participate in undergraduate research. There are a number of options to receive academic credit for a mentored research experience and to have the experience show on the official transcript. Students who wish to enroll in an undergraduate research course should consult with their academic advisor to understand how the credit will apply towards the degree requirements. If no credit is needed, students may be eligible to enroll in the 0-credit IDS 2912, IDS 4914 or IDH 4910 courses. These courses will not impact degree credits or GPA but will show on an official transcript and document the experience. The Office of Undergraduate Research will assist students in understanding the various course options.

INTERNSHIP OPPORTUNITIES

All students will enroll in multiple clinical experiences throughout the program which will provide them with the opportunity to engage in the practice of teaching.
OTHER INFORMATION

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.

ADVISING INFORMATION

Students are encouraged to seek advising in Student Academic Services, EDU 106, 813-974-2979. To schedule an appointment visit us at http://www.usf.edu/education/advising/undergraduate/.

EXEMPLARY STUDENT EDUCATION WITH ESOL & READING ENDORSEMENT FACULTY


B.A. OR B.S. - MATHEMATICS EDUCATION (BMA)

(CIP = 13.1311 - TRACK 1 OF 2)

TOTAL DEGREE HOURS: 120


The Bachelors in Mathematics Education program explores educational foundations, methods, and theory and practice of teaching mathematics at grades 6-12. This program is designed to prepare effective teachers of middle and high school mathematics who are knowledgeable, reflective, caring, and are able to meet the needs of a diverse student population.

STATE MANDATED COMMON COURSE PREREQUISITES

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 General Education 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.

Transfer students are also required to comply with the immunization, foreign language, and continuous enrollment policies of the university.

Students should complete the following prerequisite courses 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 in prerequisite courses.

- EDF X005 Introduction to the Teaching Profession
- MAC X311 Calculus I
- MAC X312 Calculus II
- MAC XXXX or MTG XXXX or MAS XXXX Mathematics Electives

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.
REQUIREMENTS FOR THE MAJOR IN MATHEMATICS EDUCATION

TOTAL MAJOR HOURS: 70

MAJOR REQUIREMENTS FOR THE B.A. OR B.S. DEGREE:

MAJOR CORE (70 HOURS)

Professional Education (18 credit hours):
- EDF 3214 Human Development and Learning
- EDF 3604 Schools and Society
- EDF 4430 Measurement for Teachers
- EEX 4070 Integrating Exceptional Students in the Regular Classroom
- TSL 4324 ESOL Competencies and Strategies
- ESE 4322 Classroom Management for Diverse School and Society

Specialization (25 credit hours):
- MAC 2313 Calculus III
- MAD 3107 Discrete Mathematics
- MAS 3105 Linear Algebra or MAS 4301 Elementary Abstract Algebra
- MAS 4214 Elementary Number Theory
- MGF 3301 Bridge to Abstract Mathematics
- MHF 4403 The History of Mathematics Education
- MTG 3212 Geometry or MTG 4214 Modern Geometry
- STA 2023 Introductory Statistics I

Additional Specialization (27 credit hours):
- MAE 4320 Teaching Mathematics in the Middle Grades
- MAE 4330 Teaching Senior High School Mathematics
- MAE 4551 Reading the Language of Mathematics
- MAE 4652 Technology for Teaching Secondary School Mathematics
- MAE 4945 Practicum in Mathematics Education
- MAE 4940 Internship: Mathematics Education
- MAE 4936 Senior Seminar in Mathematics Education

Admission Requirements

Students seeking admission to this program must meet the following Department of Education's Teacher Educator Certification requirements:

1. Earn a 2.5 overall GPA;
2. Complete all general education and state mandated common prerequisite courses with a C- or higher in each;
3. Pass all sections of the General Knowledge Test. Information can be found at http://www.usf.edu/education/academics/teacher-certification/general-knowledge-test.aspx;
4. Submit an application to Student Academic Services, EDU 106, 813-974-2979.

Applications can be found at http://www.usf.edu/education/advising/undergraduate/coedu-applications.aspx.
GPA REQUIREMENTS

Once admitted, students must maintain a 2.5 overall GPA and earn a 2.5 in all upper-level coursework in the major, including Core and Specialization courses.

COURSE GRADE REQUIREMENT

Students must earn a C- or higher in all upper-level courses in the major.

RESIDENCY REQUIREMENT

A student must complete 32 hours of major coursework at USF Tampa to meet residency requirements.

RESEARCH OPPORTUNITIES

All undergraduate students in any degree program can participate in undergraduate research. There are a number of options to receive academic credit for a mentored research experience and to have the experience show on the official transcript. Students who wish to enroll in an undergraduate research course should consult with their academic advisor to understand how the credit will apply towards the degree requirements. If no credit is needed, students may be eligible to enroll in the 0-credit IDS 2912, IDS 4914 or IDH 4910 courses. These courses will not impact degree credits or GPA but will show on an official transcript and document the experience. The Office of Undergraduate Research will assist students in understanding the various course options.

INTERNSHIP OPPORTUNITIES

Students enrolled in courses requiring field experience (MAE 4945 Practicum in Mathematics Education and MAE 4940 Internship: Mathematics Education) are required to undergo a background check and fingerprinting.

ADVISING INFORMATION

Students are encouraged to seek advising in Student Academic Services, EDU 106, 813-974-2979. To schedule an appointment visit us at http://www.usf.edu/education/advising/undergraduate/.

MATHEMATICS EDUCATION FACULTY

Chairpersons: M. Berson, J. Schneider; Assistant Professors: R. Sears, E. Vomvoridi-Ivanovic.

MIDDLE SCHOOL MATHEMATICS (BMM) CONCENTRATION

(CIP = 13.1311)
TOTAL DEGREE HOURS: 120

This program is part of the Helios STEM Middle School Teacher Residency Program in the Department of Secondary Education. Collaboratively developed with Hillsborough County Public Schools (HCPS), this program is designed to prepare effective teachers of middle grades mathematics who are able to meet the needs of a diverse student population. This program includes extensive field experiences, including a yearlong residency using a co-teach model with a HCPS teacher. Program graduates will be eligible for certification in Middle Grades Mathematics 5-9.

STATE MANDATED COMMON COURSE PREREQUISITES

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 General Education 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.

Transfer students are also required to comply with the immunization, foreign language, and continuous enrollment policies of the university.
Students should complete the following prerequisite courses 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 in prerequisite courses.

- EDF X005 Introduction to the Teaching Profession
- MAC X311 Calculus I
- MAC XXXX (four credit hours)

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.

**REQUIREMENTS FOR THE CONCENTRATION IN MIDDLE SCHOOL MATHEMATICS**

**TOTAL MAJOR HOURS: 64**

**MAJOR REQUIREMENTS FOR THE B.A. OR B.S. DEGREE:**

**MAJOR CORE - 18 HOURS**

**Professional Education Courses (18 hours):**

- EDF 3214 Human Development and Learning
- EDF 3604 Schools and Society
- EDF 4430 Measurement for Teachers
- EEX 4070 Integrating Exceptional Students in the Regular Classroom
- TSL 4324 ESOL Competencies and Strategies
- ESE 4322 Classroom Management for Diverse School and Society

**MAJOR CORE (46 HOURS)**

The STEM Middle School Mathematics program is a cohort, residency program.

**Concentration Courses (46 hours):**

- EDM 3403 Middle Level Education
- EDM 3620 Teaching the Young Adolescent Learner
- EDM 4406 Contemporary Issues in STEM Education
- MAE 3224 Middle School Mathematics Methods Course 1
- MAE 3225 Middle School Mathematics Methods Course 2
- MAE 3941 Practicum I: Middle School Mathematics Education
- MAE 3942 Practicum II: Middle School Mathematics Education
- MAE 4551 Reading the Language of Mathematics
- MAE 4941 Internship I: Middle School Mathematics Education
- MAE 4942 Internship II: Middle School Mathematics Education
- MAS 3108 Algebra Connections
• MAS 3205 Number Concepts Connections
• MTG 3207 Geometry Connections
• STA 3027 Statistics and Probability Connections

In addition to the courses listed, students must complete "Preliminary Requirements for Students entering Teacher Education Programs (see statement under main college heading)."

GPA REQUIREMENTS

Students must maintain an overall GPA of 2.5 to continue to the next term. In addition, students in educator preparation programs must also earn a minimum 2.5 GPA in their professional core and specialization coursework to continue to the next term.

GRADING REQUIREMENT

Students are required to earn a C- or higher in all upper-level major coursework.

RESIDENCY REQUIREMENT

A student must complete 32 hours of major coursework at USF Tampa to meet residency requirements.

INTERNSHIP OPPORTUNITIES

Students enrolled in courses requiring field experience (Practicum & internship courses) are required to undergo a background check and fingerprinting.

MATHEMATICS EDUCATION FACULTY

Associate Professor: C. Ellerbrock; Assistant Professors: R. Sears, E. Vomvoridi-Ivanovic.

B.A. OR B.S. - PHYSICAL EDUCATION (PET)

(CIP = 13.1314 - TRACK 1 OF 2)
TOTAL DEGREE HOURS: 120

Physical Education includes the study of kinesiology, physical skill development, pedagogy, coaching, curriculum development and assessment, and administration of physical activity programs. The Physical Education major offers students extensive preparation in theory and methodology courses leading to K-12 teaching certification. The Physical Education Program also offers a minor in the Science of Physical Activity.

STATE MANDATED COMMON COURSE PREREQUISITES

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 General Education 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.

Transfer students are also required to comply with the immunization, foreign language, and continuous enrollment policies of the university.

Students should complete the following prerequisite courses 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 in prerequisite courses.

- EDF X005 Introduction to the Teaching Profession
- BSC X085
- BSC X086 or PET X622
- Conditioning, Fitness and Wellness Course in Physical Education Activities
- Skill Development Courses in Physical Activities

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.

REQUIREMENTS FOR THE MAJOR IN PHYSICAL EDUCATION

TOTAL MAJOR HOURS: 71

MAJOR REQUIREMENTS FOR THE B.A. OR B.S. DEGREE:

MAJOR CORE (71 HOURS)

- EDF 3122 Learning and the Developing Child or EDF 4131 Learning and the Developing Adolescent
- TSL 4324 ESOL Competencies and Strategies
- PET 3421 Curriculum and Instruction in Physical Education
- PET 4432 Instructional Design & Content: Physical Education Elementary I
- PET 4433 Instructional Design & Content: Physical Education Elementary II
- PET 4942 Physical Education Pre-Internship: Elementary
- EDF 3604 Schools and Society
- PET 4510 Measurement and Evaluation in Physical Education
- PET 3031 Motor Behavior
- PET 3441 Instructional Design & Content: Middle School Physical Education
- PET 4742 Secondary PE Methods: Physical Activity & Fitness Opportunities
- RED 4312 Emergent Literacy Strategies and Assessment
- PET 3640 Adapted Physical Education
- PET 4765 Scientific Principles of Athletic Coaching
- PET 4820 Sport Skill Proficiency
- PET 4380 Applied Exercise Science
- PET 4401 Class Management, Safety, Ethics, Law and Organization and Administration of Physical Education
- PET 4442 Instructional Design & Content: Physical Education Secondary
- PET 4944 Physical Education Pre-Internship: Secondary
- PET 4946 Internship in Physical Education: Elementary
- PET 4947 Internship in Physical Education: Secondary
- PET 4929 Senior Seminar in Physical Education
Admission Requirements
Students seeking admission to this program must meet the following Department of Education's Teacher Educator Certification requirements:

1. Earn a 2.5 overall GPA;
2. Complete all general education and state mandated common prerequisite courses with a C- or higher in each;
3. Pass all sections of the General Knowledge Test. Information can be found at http://www.usf.edu/education/academics/teacher-certification/general-knowledge-test.aspx;
4. Submit an application to Student Academic Services, EDU 106, 813-974-2979.

Requirements for the B.S. Degree in Physical Education
Physical Education is a two-year program that includes mandatory attendance during the summer session between the first and second years. The Physical Education program only admits students in the Fall Semester of each year. Students proceed through the program 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.

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.

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 College of Education Professional Disposition and Ethical Standards Policy and Procedures document.
2. Pay for costs in addition to tuition, fees, and books such as:
   - Attendance at the state professional organization conference (minimally 1 year)
   - Student membership in the state physical education professional organization
   - Transportation to and from school sites required in courses and internships
   - Physical Education Teacher Education uniform for internships
   - Criminal background checks and finger printing for internships
   - Assignments in some classes (e.g., printing/binding of group project reports, academic and professional portfolio, professional file, etc.)
   - Electronic assignment portfolio throughout program
3. Complete professional development plans throughout the program.
4. Complete and pass individual development plans in identified skill areas during the program.

GPA REQUIREMENTS
Once admitted, students must maintain a 2.5 overall GPA and earn a 2.5 in all upper-level coursework in the major including Core and Specialization courses.

GRADING REQUIREMENT
Receive a grade of C- or higher in all required courses and maintain a 2.5 overall GPA and a 2.5 Core and Specialization GPA to be eligible to intern and graduate.
RESEARCH OPPORTUNITIES

All undergraduate students in any degree program can participate in undergraduate research. There are a number of options to receive academic credit for a mentored research experience and to have the experience show on the official transcript. Students who wish to enroll in an undergraduate research course should consult with their academic advisor to understand how the credit will apply towards the degree requirements. If no credit is needed, students may be eligible to enroll in the 0-credit IDS 2912, IDS 4914 or IDH 4910 courses. These courses will not impact degree credits or GPA but will show on an official transcript and document the experience. The Office of Undergraduate Research will assist students in understanding the various course options.

INTERNSHIP OPPORTUNITIES

- PET 4942 Physical Education Pre-Internship: Elementary
- PET 4944 Physical Education Pre-Internship: Secondary
- PET 4946 Internship in Physical Education: Elementary
- PET 4947 Internship in Physical Education: Secondary

Physical Education students will complete four clinical experiences. The final internship consists of two courses, each of 7 weeks. One will be performed at the elementary level and one at the middle or high school level. Passing grades in internship will only be possible if all sections of the Florida Teacher Certification Exam are taken and passed prior to graduation.

OTHER INFORMATION

Physical Education Elective Program

Physical Education elective offerings 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.

ADVISING INFORMATION

Students are encouraged to seek advising in Student Academic Services, EDU 106, 813-974-2979. To schedule an appointment visit us at http://www.usf.edu/education/advising/undergraduate/.

PHYSICAL EDUCATION FACULTY

Chairpersons: M. Berson, J. Schneider; Professors: F.N. Faucette, S. Sanders, M.J. Stewart; Associate Professor: H.B. Sun; Assistant Professors: S. Flory, L. Witherspoon.
EXERCISE SCIENCE (BPW) CONCENTRATION
(CIP = 13.1314 TRACK 2 OF 2)
TOTAL DEGREE HOURS: 120

http://www.coedu.usf.edu/main/departments/physed/programs/progEs.html

Exercise Science includes study of the biological and behavioral aspects of exercise, fitness assessment and exercise prescription, behavior modification, and the clinical aspects of exercise. The Exercise Science program integrates classroom study with hands-on practical experiences. The Exercise Science major qualifies students for professional certifications such as ACSM's Certified Health Fitness Specialist, and NSCA's Certified Strength and Conditioning Specialist, and to pursue positions in worksite health promotion, strength and conditioning, clinical rehabilitation, personal fitness training, and sport performance. Students who successfully complete the undergraduate Exercise Science Major earn a B.S. degree in Physical Education with a concentration in Exercise Science. 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).

LIMITED ACCESS

THIS CONCENTRATION HAS ADDITIONAL ADMISSIONS REQUIREMENTS AS LISTED IN THIS SECTION.

The exercise science program is a limited access program meaning that enrollment is limited to 30 students each fall semester. Selection of the 30 students is based on the following criteria:

1. An overall GPA of 2.50. This is a College of Education criterion.

2. Completion of all the following "common statewide prerequisites" for exercise science programs by the spring semester prior to fall admission with a C- or higher.

3. Students with the top 30 composite GPAs will be selected for admission into the program. A composite GPA score will be calculated for each student by adding 30 percent of the overall GPA and 70 percent of the common statewide prerequisite GPA.

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 General Education requirements for the University of South Florida or for the Florida public college or university in which the student took his or her General Education requirements.

STATE MANDATED COMMON COURSE PREREQUISITES

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 General Education 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.

Transfer students are also required to comply with the immunization, foreign language, and continuous enrollment policies of the university.

Students should complete the following prerequisite courses 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 in prerequisite courses.

- CHM X045/X045L or CHM X030 or CHM X045C
- HUN X201 or HUN X577 or HSC X100
- BSC X085/X085L or PET X322/X322L or BSC X093/X093L or APK X100C or BSC X085C or PET X322C or BSC X093C
- SPC X608 or AEE X030C
- APX 105C or BSC X086/X086L or PET X323/X323L or BSC X094/X094L
- STA X023 or STA X030 or MAC X147
- MAC X105 or MAC X140 or MAC X147 or MAC X311

REQUIREMENTS FOR THE CONCENTRATION IN EXERCISE SCIENCE

TOTAL MAJOR HOURS: 60

MAJOR REQUIREMENTS FOR THE B.A. OR B.S. DEGREE:

MAJOR CORE (57 HOURS)

- APK 3120 Exercise Physiology
- PET 3211 Stress Management
- PET 3314 Professional Development Seminar
- PET 4219 Exercise Psychology
- PET 3361 Nutrition for Fitness and Sport
- PET 3312 Biomechanics
- PET 3384 Exercise Testing and Prescription
- PET 4402 Planning and Evaluating Fitness/Wellness Program
- PET 3404 Emergency Response and Planning
- PET 3076 Fitness Across the Lifespan
- PET 4093 Strength and Conditioning
- PET 3364 Physical Activity Epidemiology
- PET 4413 Administration of Fitness/Wellness Centers
- PET 4550 Clinical Exercise Testing and Prescription
- PET 3713 Theory and Practice of Teaching Group Exercise
- PET 4088 Individualized Fitness/Wellness Programming
- PET 4941 Internship in Fitness/Wellness

MAJOR ELECTIVES (3 HOURS)

- PET XXXX Elective of student's choice

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 following are "recommended" prerequisite courses and the grades in these courses will not be used to calculate the "common statewide prerequisite" GPA for admission.

1. PEM 2131 Weight Training (2)
2. HLP 2081 Personal Wellness (3)

NOTE: Though no computer course is recommended, students need to possess excellent computer skills, e.g., MS applications.

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:
   - Material and supply fee for PET 3384
   - Student membership for the Exercise Science student organization
   - Professional liability insurance
   - Student membership in at least one professional organization
   - Transportation to and from field experiences required in courses including the practicum and internship
   - Possible requirements of practicum/internship sites such as health/medical exam, immunizations/vaccines, criminal background check, fingerprinting, drug/alcohol screening, personal health insurance, uniforms, and parking
   - 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.
   - 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.

GPA REQUIREMENTS

Once admitted, students must maintain a 2.5 overall GPA and earn a 2.5 in all upper-level coursework.

COURSE GRADE REQUIREMENT

Students must earn a C- or higher in every upper-level course in the major.

INTERNSHIP OPPORTUNITIES

Students will enroll in an internship experience as part of their major coursework.
Physical Education Elective Program

Physical Education elective offerings 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.

ADVISING INFORMATION

Students are encouraged to seek advising in Student Academic Services, EDU 106, 813-974-2979. To schedule an appointment visit us at http://www.usf.edu/education/advising/undergraduate/.

PHYSICAL EDUCATION FACULTY

Program Coordinator: C. Ashley; Professor: J. Eickhoff-Shemek; Associate Professor: B. Campbell, M. Kilpatrick.

B.A. OR B.S. - SCIENCE EDUCATION (SCE)

(CIP = 13.1316)

TOTAL DEGREE HOURS: 120


Science Education explores educational foundations and methods to prepare educators in middle and secondary schools. It also explores the theory and practice of teaching science education. The objective is to prepare reflective and caring educators for a career in middle and high schools.

STATE MANDATED COMMON COURSE PREREQUISITES

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 General Education 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.

Transfer students are also required to comply with the immunization, foreign language, and continuous enrollment policies of the university.

Students should complete the following prerequisite courses 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 in prerequisite courses.

All Programs (Biology, Chemistry, and Physics):

- EDF X005 Introduction to the Teaching Profession (3)

Other State Mandated Program Prerequisites:

- For Biology Teacher Education
  - Biology I and II with Labs:
    - (BSC X010/X010L and BSC X011/X011L) or (BSC X010C and BSC X011C) (8)
  - Chemistry with Lab or Physics with Lab (Select two of the following options):
    - CHM X045/X045L or PHY X048/X048L or CHM X045C or PHY X048C or PHY X053/X053L or CHM X046/X046L or PHY X049/X049L or PHY X054/X054L or CHM X046C or PHY X049C (8)
For Chemistry Teacher Education
- Chemistry with Lab:
  - CHM X045/X045L and CHM X046/X046L (8)
- Physics with Lab:
  - (PHY X048/X048L and PHY X049/X049L) or (PHY X053/X053L and PHY X054/X054L) or (PHY X048C and PHY X049C) or (PHY X053C and PHY X054C) (8)
- Calculus I:
  - MAC X311 Calculus I (4)

For Physics Teacher Education
- Physics with Lab:
  - (PHY X048/X048L and PHY X049/X049L) or (PHY X048C and PHY X049C) (10)
- Chemistry with Lab:
  - (CHM X045/X045L and CHM X046/X046L) or (CHM X045C and CHM X046C) (8)
- Calculus:
  - MAC X311 and MAC X312 and MAC X313 (12)

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.

REQUIREMENTS FOR THE MAJOR IN SCIENCE EDUCATION

TOTAL MAJOR HOURS: 32

MAJOR REQUIREMENTS FOR THE B.A. OR B.S. DEGREE:

MAJOR CORE (32 HOURS)

Professional Education Core for all Science Education Concentrations
- EDF 3214 Human Development and Learning
- EDF 3604 Schools and Society
- EDF 4430 Measurement for Teachers
- EEX 4070 Integrating Exceptional Students in the Regular Classroom
- ESE 4322 Classroom Management for Diverse Schools and Society
- SCE 4936 Senior Seminar in Science Education
- SCE 4940 Internship: Science Education
- SCE 4945 Practicum in Secondary Science Education
- TSL 4324 ESOL Competencies and Strategies

In addition to the courses listed, students must complete "Preliminary Requirements for Students Entering Teacher Education Programs."
GPA REQUIREMENTS

Once admitted, students must maintain a 2.5 overall GPA and earn a 2.5 in all upper-level coursework in the major including Core and Specialization courses.

COURSE GRADE REQUIREMENT

Students must earn a C- or higher in all upper-level courses in the major.

RESEARCH OPPORTUNITIES

All undergraduate students in any degree program can participate in undergraduate research. There are a number of options to receive academic credit for a mentored research experience and to have the experience show on the official transcript. Students who wish to enroll in an undergraduate research course should consult with their academic advisor to understand how the credit will apply towards the degree requirements. If no credit is needed, students may be eligible to enroll in the 0-credit IDS 2912, IDS 4914 or IDH 4910 courses. These courses will not impact degree credits or GPA but will show on an official transcript and document the experience. The Office of Undergraduate Research will assist students in understanding the various course options.

INTERNSHIP OPPORTUNITIES

All students will enroll in multiple clinical experiences throughout the program which will provide them with the opportunity to engage in the practice of teaching.

ADVISING INFORMATION

Students are encouraged to seek advising in Student Academic Services, EDU 106, 813-974-2979. To schedule an appointment visit us at http://www.usf.edu/education/advising/undergraduate/.

SCIENCE EDUCATION FACULTY


This concentration is accepting no new admits.

MIDDLE SCHOOL SCIENCE EDUCATION (BDS) CONCENTRATION

(CIP = 13.1316)

http://www.coedu.usf.edu/main/departments/seced/seced.html

This is a joint program with the Departments of Biology, Chemistry and Physics. Upper level curriculum is a combination of upper level Education courses as well as upper level Biology, Chemistry and Physics courses depending on which subject area is chosen. NOTE: This concentration is accepting no new admits.

REQUIREMENTS FOR THE CONCENTRATION IN MIDDLE SCHOOL SCIENCE EDUCATION

TOTAL CONCENTRATION HOURS: 78

CONCENTRATION CORE (46 HOURS)

Professional Education Courses (18 hours):

- EDF 3214 Human Development and Learning
- EDF 3604 Schools and Society (WRIN)
- EDF 4430 Measurement for Teachers
- EEX 4070 Integrating Exceptional Students in the Regular Classroom
- ESE 4322 Classroom Management for Diverse Schools and Society
- TSL 4324 ESOL Competencies and Strategies
Concentration Core Courses (46 hours):

- ESC 3210 Earth and Space Science Fundamentals
- SCE 4320 Teaching Methods in Middle Grades Science I
- EDM 3403 Middle-Level Education
- SCE 3941 Practicum I: Middle School Science Education
- BSC 3813 Life Science Fundamentals for Teachers
- SCE 4305 Communication Skills in the Science Classroom
- SCE 4330 Methods of Secondary Science Education
- SCE 3942 Practicum II: Middle School Science Education
- EDM 3620 Teaching the Young Adolescent Learner
- ISC 3403C Physical Science Fundamentals for Teachers
- SCE 4941 Internship I: Middle School Science Education
- EDM 4406 Contemporary Issues in STEM Education (CPST)
- SCE 4942 Internship II: Middle School Science Education

Admission Requirements

Admission to an educator preparation program is contingent upon meeting the following Department of Education's Teacher Educator Certification requirements:

1. Earn a 2.5 overall GPA;
2. Complete all general education and state mandated common prerequisite courses with a C- or higher in each;
3. Pass all sections of the General Knowledge Test. Information can be found at [http://www.usf.edu/education/academics/teacher-certification/general-knowledge-test.aspx](http://www.usf.edu/education/academics/teacher-certification/general-knowledge-test.aspx);
4. Submit an application to Student Academic Services, EDU 106, 813-974-2979.

Applications can be found at [http://www.usf.edu/education/advising/undergraduate/coedu-applications.aspx](http://www.usf.edu/education/advising/undergraduate/coedu-applications.aspx).

**SCIENCE EDUCATION FACULTY**

*Interim Chairperson:* D. Thompson; *Professors:* A.P. Feldman, B.S. Spector, D. Zeidler; *Associate Professor:* C. Ellerbrock.
BIOLOGY EDUCATION (BSB) CONCENTRATION

REQUIREMENTS FOR THE CONCENTRATION IN BIOLOGY EDUCATION

TOTAL CONCENTRATION HOURS: 58

CONCENTRATION CORE (26 HOURS)

Required Supporting Courses for the Concentration (16 credit hours)

The following courses are prerequisites and supporting courses for this major. They are required for the major, but are not counted in the total hours for this major. The degree will not be awarded if these courses have not been taken by the end of the student’s final semester.

- BSC 2010 and BSC 2010L Cellular Processes and Laboratory
- BSC 2011 and BSC 2011L Biodiversity and Laboratory
- CHM 2045 and CHM 2045L General Chemistry I and Laboratory or PHY 2048 and PHY 2048L General Physics I - Calculus Based and Laboratory or PHY 2053/PHY 2053L Calculus I: MAC 2241 or MAC 2311 or MAC 2281

Students must receive a C- or better to meet the major requirements.

Specialization Courses (14 credit hours):

- PCB 3023 Cell Biology
- PCB 3023L Cell Biology Laboratory
- PCB 3043 Principles of Ecology
- PCB 3043L Principles of Ecology Laboratory
- PCB 3063 General Genetics
- PCB 4674 Organic Evolution

Teaching Method Courses (12 credit hours):

- SCE 4305 Communication Skills in the Science Classroom
- SCE 4320 Teaching Methods in Middle Grades Science I
- SCE 4330 Methods of Secondary Science Education
- SCE 4863 Science, Technology, Society Interaction

Admission Requirements

Admission to an educator preparation program is contingent upon meeting the following Department of Education’s Teacher Educator Certification requirements:

1. Earn a 2.5 overall GPA;
2. Complete all general education and state mandated common prerequisite courses with a C- or higher in each;
3. Pass all sections of the General Knowledge Test. Information can be found at http://www.usf.edu/education/academics/teacher-certification/general-knowledge-test.aspx;
4. Submit an application to Student Academic Services, EDU 106, 813-974-2979.

Applications can be found at http://www.usf.edu/education/advising/undergraduate/coedu-applications.aspx.
CHEMISTRY EDUCATION (BSC) CONCENTRATION

(CIP = 13.1316)

REQUIREMENTS FOR THE CONCENTRATION IN CHEMISTRY EDUCATION

TOTAL CONCENTRATION HOURS: 60

CONCENTRATION CORE (28 HOURS)

Required Supporting Courses for the Concentration (28 credit hours)

The following courses are prerequisites and supporting courses for this major. They are required for the major, but are not counted in the total hours for this major. The degree will not be awarded if these courses have not been taken by the end of the student's final semester.

- BSC 2010 and BSC 2010L Cellular Processes and Laboratory
- BSC 2011 and BSC 2011L Biodiversity and Laboratory
- CHM 2045 and CHM 2045L General Chemistry I and Laboratory
- CHM 2046 and CHM 2046L General Chemistry II and Laboratory
- PHY 2048 and PHY 2048L General Physics I - Calculus Based and Laboratory
- PHY 2049 and PHY 2049L General Physics II - Calculus Based and Laboratory
- Calculus I: MAC 2241 or MAC 2311 or MAC 2281

Students must receive a C- or better to meet the major requirements.

Specialization Courses (16 credit hours):

- CHM 2210 Organic Chemistry I
- CHM 2210L Organic Chemistry I Laboratory
- CHM 3120C Elementary Analytical Chemistry
- CHM 3610 Intermediate Inorganic Chemistry
- CHM 3610L Intermediate Inorganic Chemistry Laboratory
- CHM 4070 Historical Perspectives in Chemistry

Teaching Methods Courses (12 credit hours):

- SCE 4320 Teaching Methods in Middle Grades Science I
- SCE 4330 Methods of Secondary Science Education
- SCE 4305 Communication Skills in the Science Classroom
- SCE 4863 Science, Technology, Science Interaction

Admission Requirements

Admission to an educator preparation program is contingent upon meeting the following Department of Education's Teacher Educator Certification requirements:

1. Earn a 2.5 overall GPA;
2. Complete all general education and state mandated common prerequisite courses with a C- or higher in each;
3. Pass all sections of the General Knowledge Test. Information can be found at [http://www.usf.edu/education/academics/teacher-certification/general-knowledge-test.aspx](http://www.usf.edu/education/academics/teacher-certification/general-knowledge-test.aspx);
4. Submit an application to Student Academic Services, EDU 106, 813-974-2979.

Applications can be found at [http://www.usf.edu/education/advising/undergraduate/coedu-applications.aspx](http://www.usf.edu/education/advising/undergraduate/coedu-applications.aspx).
PHYSICS EDUCATION (BSY) CONCENTRATION  
(CIP = 13.1316)

REQUIREMENTS FOR THE CONCENTRATION IN PHYSICS EDUCATION

TOTAL CONCENTRATION HOURS: 60

CONCENTRATION CORE (28 HOURS)

Required Supporting Courses for the Concentration (28 credit hours)

The following courses are prerequisites and supporting courses for this major. They are required for the major, but are not counted in the total hours for this major. The degree will not be awarded if these courses have not been taken by the end of the student's final semester.

- CHM 2045 and CHM 2045L General Chemistry I and Laboratory
- CHM 2046 and CHM 2046L General Chemistry II and Laboratory
- PHY 2048 and PHY 2048L General Physics I - Calculus Based and Laboratory
- PHY 2049 and PHY 2049L General Physics II - Calculus Based and Laboratory
- Calculus I: MAC 2241 or MAC 2311 or MAC 2281
- Calculus II: MAC 2242 or MAC 2312 or MAC 2282
- Calculus III: MAC 2313 or MAC 2283

Students must receive a C- or better to meet the major requirements.

Specialization (16 credit hours):

- PHY 2020 Conceptual Physics
- PHY 3101 Modern Physics
- PHY 3220 Classical Mechanics
- PHY 3323 Electricity and Magnetism I
- PHZ 3113 Mathematical Methods in Physics

Teaching Methods Courses (12 credit hours):

- SCE 4320 Teaching Methods in Middle Grades Science I
- SCE 4330 Methods of Secondary Science Education
- SCE 4305 Communication Skills in the Science Classroom
- SCE 4863 Science, Technology, Society Interaction

Admission Requirements

Admission to an educator preparation program is contingent upon meeting the following Department of Education's Teacher Educator Certification requirements:

1. Earn a 2.5 overall GPA;
2. Complete all general education and state mandated common prerequisite courses with a C- or higher in each;
3. Pass all sections of the General Knowledge Test. Information can be found at http://www.usf.edu/education/academics/teacher-certification/general-knowledge-test.aspx;
4. Submit an application to Student Academic Services, EDU 106, 813-974-2979.

Applications can be found at http://www.usf.edu/education/advising/undergraduate/coedu-applications.aspx.
B.S. - SOCIAL SCIENCE EDUCATION (BSS)
(CIP = 13.1317)
TOTAL DEGREE HOURS: 120

http://www.usf.edu/education/areas-of-study/social-science/education/

Social Science Education explores educational foundations and methods to prepare educators in middle and secondary schools. It also explores the theory and practice of teaching social science education. The objective is to prepare reflective and caring educators. Prepares students for a career in middle and high schools.

STATE MANDATED COMMON COURSE PREREQUISITES

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 General Education 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.

Transfer students are also required to comply with the immunization, foreign language, and continuous enrollment policies of the university.

Students should complete the following prerequisite courses 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 in prerequisite courses.

- EDF X005 Introduction to the Teaching Profession (3)
- AMH X010 (3)
- AMH X020 (3)
- POS X041 (3)
- ECO XXXX or SOC XXXX or ANT XXXX or PSY XXXX or GEA XXXX (3)

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.

REQUIREMENTS FOR THE MAJOR IN SOCIAL SCIENCE EDUCATION

TOTAL MAJOR HOURS: 84

MAJOR REQUIREMENTS FOR THE B.S. DEGREE:

MAJOR CORE (84 HOURS)

Professional Education Core:
- EDF 3214 Human Development and Learning
- EDF 3604 Schools and Society
- EDF 4430 Measurement for Teachers
- EEX 4070 Integrating Exceptional Students in the Regular Classroom
- TSL 4324 ESOL Competencies and Strategies
- ESE 4322 Classroom Management for Diverse School and Society
Social Sciences Specialization:

History
- AMH 2010 American History I
- AMH 2020 American History II
- AMH 3421 Early Florida
- AMH 3423 Modern Florida
- WOH 2022 Global History since 1750

Two of the following:
- EUH 2011 Ancient History I
- EUH 2012 Ancient History II
- EUH 2022 The Medieval West
- EUH 2030 Modern European History I
- EUH 2031 Modern European History II

Both of the following:
- GEA 2000 World Regional Geography
- POS 2112 State and Local Government and Politics

One of the following:
- ANT 2000 Introduction to Anthropology
- ANT 2410 Cultural Anthropology

One of the following:
- ECO 1000 Basic Economics
- ECO 2013 Macroeconomics

One of the following:
- SYG 2000 Introduction to Sociology
- SYG 2010 Contemporary Social Problems

One of the following:
- POS 2041 American National Government
- POS 2080 The American Political Tradition

Social Science Education:
- SSE 4333 Teaching Middle Grades Social Science
- SSE 4334 Teaching Secondary Grades Social Science
- SSE 4335 Teaching Social Science Themes*
- SSE 4380 Global and Multicultural Perspectives in Education
- SSE 4600 Reading and Basic Skills in the Social Studies Class
- SSE 4936 Senior Seminar in Social Sciences Education
- SSE 4940 Internship: Social Science Education**

*SSE 4333 must be successfully completed prior to SSE 4335.

*Only SSE 4936 can be taken at the same time as SSE 4940.
Admission Requirements

Students seeking admission to this program must meet the following Department of Education's Teacher Educator Certification requirements:

1. Earn a 2.5 overall GPA;
2. Complete all general education and state mandated common prerequisite courses with a C- or higher in each;
3. Pass all sections of the General Knowledge Test. Information can be found at [http://www.usf.edu/education/academics/teacher-certification/general-knowledge-test.aspx](http://www.usf.edu/education/academics/teacher-certification/general-knowledge-test.aspx);
4. Submit an application to Student Academic Services, EDU 106, 813-974-2979.

Applications can be found at [http://www.usf.edu/education/advising/undergraduate/coedu-applications.aspx](http://www.usf.edu/education/advising/undergraduate/coedu-applications.aspx).

GPA REQUIREMENTS

Once admitted, students must maintain a 2.5 overall GPA and earn a 2.5 in all upper-level coursework in the major including Core and Specialization courses.

COURSE GRADE REQUIREMENT

Students must earn a C- or higher in all upper-level courses in the major.

RESEARCH OPPORTUNITIES

All undergraduate students in any degree program can participate in undergraduate research. There are a number of options to receive academic credit for a mentored research experience and to have the experience show on the official transcript. Students who wish to enroll in an undergraduate research course should consult with their academic advisor to understand how the credit will apply towards the degree requirements. If no credit is needed, students may be eligible to enroll in the 0-credit IDS 2912, IDS 4914 or IDH 4910 courses. These courses will not impact degree credits or GPA but will show on an official transcript and document the experience. The Office of Undergraduate Research will assist students in understanding the various course options.

INTERNERSHIP OPPORTUNITIES

- SSE 4334 - Student observations take place in assigned schools, Criminal Background Clearance not required
- SSE 4335 - Students teach on multiple occasions in assigned Middle or High School, Current Criminal Background Clearance required
- SSE 4940 - Students teach full-time in assigned middle or high school, Current Criminal Background Clearance required

ACCREDITATION INFORMATION

NCATE & State of Florida Approved Program

ADVISING INFORMATION

Students are encouraged to seek advising in Student Academic Services, EDU 106, 813-974-2979. To schedule an appointment visit us at [http://www.usf.edu/education/advising/undergraduate/](http://www.usf.edu/education/advising/undergraduate/).

SOCIAL SCIENCE EDUCATION FACULTY

Chairpersons: M. Berson, J. Schneider; Program Coordinator: S.J. Thornton; Professors: M. Berson, B.C. Cruz, J.A. Duplass; Emeritus Professors: H. Johnston, D.J. Puglisi.
This undergraduate minor in Foreign Language Education may be of interest to students who are getting a bachelor’s degree in another field and may be interested in teaching a foreign language in the future. This minor would give the student a foundation in methods of teaching a foreign or second language. Please note that the minor in Foreign Language Education does not result in Florida teaching certification.

REQUIREMENTS FOR THE MINOR IN FOREIGN LANGUAGE EDUCATION

MINOR CORE (12 HOURS)

- TSL 4324 ESOL Competencies and Strategies
- FLE 4314 Methods of Teaching Foreign Language and ESOL in the Elementary School
- FLE 4333 Methods of Teaching Foreign Language and ESOL in the Secondary School
- FLE 4290 Technology in Foreign and Second Language Classroom

GPA REQUIREMENTS

Students must earn an overall GPA of 2.0.

GRADING REQUIREMENT

Students must earn a C- or higher in all courses in the minor.

ADVISING INFORMATION

Students are encouraged to seek advising in Student Academic Services, EDU 106, 813-974-2979. To schedule an appointment visit us at http://www.usf.edu/education/advising/undergraduate/.

MINOR IN GLOBAL STUDIES IN EDUCATION (GSED)

TOTAL MINOR HOURS: 15

Certified Global Pathway Program

This program has been certified as a Global Pathway. Global Pathway programs have significant global content and align with the goals of USF’s Quality Enhancement Plan, the Global Citizens Program. Students in Global Pathway programs are well positioned to earn the Global Citizen Award and become eligible to apply for a study abroad scholarship offered by the Global Citizens Project.

REQUIREMENTS FOR THE MINOR IN GLOBAL STUDIES IN EDUCATION

MINOR CORE (9 HOURS)

- EDF 3514 History of Education in the United States
- EEX 4742 Narrative Perspectives on Exceptionality: Cultural and Ethical Issues
- EDF 4490 Studies in Research Design
MINOR ELECTIVES (6 HOURS)

Choose two electives from the following list:

- EDF 3604 Schools and Society
- SYO 4250 Sociology of Education
- DEP 4053 Developmental Psychology
- EDF 3122 Learning and the Developing Child
- EDF 3214 Human Development and Learning
- EDF 4124 Child Growth and Learning
- EDF 4131 Learning and the Developing Adolescent
- SSE 4380 Global/Multicultural Perspectives in Education
- EDF 2005 Introduction to the Teaching Profession
- EDF 2085 Education, Diversity, and Global Society
- EDG 4909 Directed Studies
- EVT 4651 Equity in Schools and the Workplace

Students seeking to substitute a course they have taken or are planning to take for one of the electives listed below should consult with an academic advisor in Student Academic Services, EDU 106, 813-974-2979.

GPA REQUIREMENTS

Student must earn an overall GPA of 2.0.

COURSE GRADE REQUIREMENT

Students must earn a C- or higher in all courses.

OTHER REQUIREMENTS

Students seeking to substitute a course they have taken or are planning to take for one of the elective courses should consult with an academic advisor in Student Academic Services, EDU 106, 813-974-2979.

ADVISING INFORMATION

Students are encouraged to seek advising in Student Academic Services, EDU 106, 813-974-2979. To schedule an appointment visit us at [http://www.usf.edu/education/advising/undergraduate/](http://www.usf.edu/education/advising/undergraduate/).

MINOR IN SCIENCE OF PHYSICAL ACTIVITY (SPED)

TOTAL MINOR HOURS: 11-12


Students who successfully complete the minor in the Science of Physical Activity will have a background in basic physical activity knowledge which may assist individuals interested in coaching and working with adults and children in physical activity settings.

REQUIREMENTS FOR THE MINOR IN SCIENCE OF PHYSICAL ACTIVITY

The minor in the Science of Physical Activity is 11-12 hours. Students must have completed 45 hours of undergraduate coursework, be considered at the junior level, have an overall GPA of 2.5, and have a major in a program other than Physical Education.
MINOR CORE (9 HOURS)

- PET 3031 Motor Behavior
- PET 4380 Applied Exercise Science
- PET 4510 Measurement and Evaluation in Physical Education

MINOR ELECTIVES (2-3 HOURS)

Students must choose one of the following courses:

- PET 4820 Sport Skill Proficiency
- SPM 3012 Issues in Sport

GPA REQUIREMENTS

Students must earn an overall GPA of 2.0

COURSE GRADE REQUIREMENT

Students must earn a C- or higher in each course.

ADVISING INFORMATION

Students are encouraged to seek advising in Student Academic Services, EDU 106, 813-974-2979. To schedule an appointment visit us at http://www.usf.edu/education/advising/undergraduate.
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About the College

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 Biomedical Engineering, Chemical Engineering, Civil Engineering, Computer Engineering, Computer Science, Cybersecurity, Electrical Engineering, Industrial Engineering, Information Technology, and Mechanical Engineering. In addition, the College offers minors in Biomedical Engineering, Computer Science, and Information Technology. 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 (5-Year) program leading to a Master of Science degree in the designated discipline. The supervision of the academic programs is the function of the administrative departments together with several coordinators. Each department is responsible for specific professional programs, faculty, laboratories, and student advising.

The Departments and Programs section that follows contains descriptions of the baccalaureate degrees offered by the College. Students interested in particular programs offered by the College of Engineering should direct their inquiries to the College of Engineering's Office of Student Services. Information is also available on the College's website: https://www.usf.edu/engineering/.

GENERAL INFORMATION

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 and technology professionals value and participate in post baccalaureate study to obtain the information and training necessary to effectively meet tomorrow's technological challenges. In order to keep abreast of evolving technologies continuing education is available through formal graduate study, seminars, special institutes, memberships in professional organizations and other structured educational opportunities.

Preliminary Coursework for Engineering Students

The 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 an Engineering major should be aware of specific requirements. Students may consult the College's Advising Office for detailed information.

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.

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. 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 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 must present a strong academic record including four years of advanced high school mathematics (analytical geometry, trigonometry, precalculus, calculus) and science including chemistry and physics. Prospective students who lack sufficient preparation in high school may need additional preparatory coursework at the University of South Florida.

Newly admitted first year students are required to take and successfully complete the university's Math Placement Test (MPT) first two subjects, basic algebra and college algebra. Students who completed pre-calculus or calculus in high school will also take the MPT for pre-calculus/trigonometry. A score of 12 out of 15 on the MPT subject exams is considered passing. Students who successfully complete all three MPT subjects are encouraged to start in Calculus I fall term for degree progression. More information about the MPT is online at http://math.usf.edu/placement/. Exemption for students who have already received credit for calculus I.

All summer admits are required to enroll in a 3-credit math preparatory course during the Summer B session.

First year summer admits and conditional admits will participate in at least one College of Engineering academic support program geared toward successful degree progression their first fall/spring semester. Examples of an academic support program include course-based learning communities, weekly academic guidance sessions, and/or weekly tutoring.

Accelerated Bachelor's and Master's Program

Well-qualified students who, at the beginning of their senior year, are clearly interested in graduate study are invited to apply to the individual accelerated academic programs offered by various departments within the College of Engineering.
Mission, Vision, Values

MISSION
To profoundly shape and impact lives through the steadfast pursuit of world-class engineering research, education, and innovation.

VISION
We aspire to be at the forefront of engineering research and education, cultivating knowledgeable, passionate engineers who are dedicated to need-based, solutions-oriented engineering.

VALUES
We share a culture of excellence, characterized by an emphasis on students, research, innovation, partnership, inclusivity, agility, and the future.

Accreditation

The USF Bachelor of Science degree programs in Chemical Engineering, Civil Engineering, Computer Engineering, Electrical Engineering, Industrial Engineering, and Mechanical Engineering are accredited by the Engineering Accreditation Commission of ABET (http://www.abet.org/).

The USF Bachelor of Science degree program in Computer Science is accredited by the Computing Accreditation Commission of ABET (http://www.abet.org/).

College-Level Requirements

Minimum Requirements

All undergraduate students with a student classification of engineering and students who have been admitted to any academic program in the College of Engineering must maintain a minimum cumulative GPA of 2.0 in each of the following categories:

1. Overall Undergraduate GPA
2. USF GPA
3. Math and Science courses (best attempt)
4. Engineering Courses
5. Prerequisite courses for the major
6. Courses within the major

Note: In no case will the minimum GPA for a category be less than 2.0.

Students who do not meet the required minimum GPA in each category are ineligible for further registration in the College unless individually designed academic plans to correct their GPA deficiencies are recommended by their academic advisor. Approved plans must include a strategy to eliminate the deficiency in two semesters or less by meeting specific goals. Students who are afforded this opportunity will be closely monitored. Those who, for any reason, fail to meet the terms of their academic plans will be ineligible to declare or continue to declare a major, or intended major, in the College of Engineering and will be ineligible to register for courses that are restricted to College of Engineering students. All undergraduate students admitted to the College of Engineering must earn the required grade in math, science, and engineering courses in no more than two (2) registered attempts. Grades of W, I, IF, U, R, and M are considered attempts. Those who, for any reason, fail to meet this requirement will be ineligible to declare or continue to declare a major, or intended major, in the College of Engineering and will be ineligible to register for courses that are restricted to college students.

Students who are ineligible for further registration in the College of Engineering will be provided with a wide range of services to assist them in selecting a new career path. Students who have been academically dismissed from the University of South Florida, or leave on probation, may choose to attend another institution of higher learning and reapply to USF after improving their overall GPA. These returning students will be considered for readmission to the College if they meet the minimum College of Engineering admission requirements for transfer students and the program entrance requirements for their intended major as published in the University of South Florida Undergraduate Catalog in effect during the term of return.
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.

University, College and Program Requirements
The College requirements described in this 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.

Student Laptop Computer Requirement
All students entering the College of Engineering are required to have a laptop computer that they can use in their
engineering classes and labs.

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 -
Academic Integrity of Students.)

Admission Requirements

Admission Requirements for First Time in College Students for all Engineering Majors and for the Computer
Science Major
(Excludes Admission Requirements for the Information Technology and Cybersecurity Majors – see below)
First time in college students and lower division students with 30 credits or less, who meet the criteria below, are
granted direct entry into the College of Engineering:
1. Admitted to the University of South Florida as a degree seeking student;
2. Test Scores:
   o SATM - a minimum quantitative score of 570 or
   o ACTM - a minimum score of 24 or
   o Completed College Algebra with a grade of C or better (not C-) or
   o Take College Algebra at USF before the first fall semester and get a grade of C or better (not C-).

Those students who do not meet the above criteria can be admitted to the College after satisfactorily completing
Calculus I and II and Physics I with lab, all with a minimum grade of C or better (no C-) in no more than two (2)
attempts per course while at USF. Two attempts includes withdrawal from a course.

Additional requirements must be met prior to admission to specific degree programs.

Admission Requirements for Transfer Students for all Engineering Majors and for the Computer Science
Major
(Excludes Admission Requirements for the Information Technology and Cybersecurity Majors – see below)
1. Fully admitted to the University of South Florida as a degree-seeking student with more than 30 earned
   credits.
2. Transfer students must complete all of the following courses with a grade of C or better (no C-) in each
course (maximum two (2) attempts allowed to earn required grade and a withdrawal is considered an
attempt):
   o Calculus I (MAC X281 or MAC X311 or equivalent)
   o Calculus II (MAC X282 or MAC X312 or equivalent), and
   o Calculus-based Physics I plus lab (PHY X048L or PHY X045L)
If a student does not meet these admissions requirements, the student can attempt to meet these transfer admission requirements in no more than two (2) attempts per course while at USF. If a grade of C is not attained in each of these courses in two or less attempts, the student will be redirected to another major.

For the specific state mandated common prerequisite courses for each major within the College of Engineering, please see the section entitled, "State Mandated Common Prerequisites" located in each department's section of the catalog.

3. Florida College System transfer students who have met the minimum criteria above and have completed the prerequisites required for their major with the minimum grades and GPA required by the academic department are accepted directly into the College of Engineering and into the specific program/major.

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 at (813) 974-2684 to request an assessment.

Admission Requirements for First Time in College Students applying to the Information Technology Major or Cybersecurity Major

Admitted to the University of South Florida as a degree-seeking student. Please note: These admission requirements do not apply to any other College of Engineering undergraduate major.

Transfer Admission Requirements for the Information Technology Major or Cybersecurity Major For the specific state mandated common prerequisite courses for the Information Technology major or Cybersecurity major, please see the section entitled, "State Mandated Common Course Prerequisites" located in the respective major.

Graduation Requirements

Graduation Application Procedures

Each College of Engineering student is required to complete an application for graduation and graduation checklist. Students should meet with their program advisor to review graduation qualifications and obtain approval well in advance of the College graduation application deadline. The graduation application deadline for the college is set prior to the university deadline and is posted on the College of Engineering Student Services website.

Note: Applications are generally due before the beginning of the graduating term. Individual academic departments may have a graduation application deadline that precedes the college one.

Baccalaureate-Level Degree Programs

Bachelor of Science

Biomedical Engineering (BSBE)
https://www.usf.edu/engineering/bme/

Biomedical Engineering is the confluence of engineering, biology and medicine. Main application areas are the development and testing of new medical devices, systems and drugs/medications to prevent or cure illnesses and medical conditions.

Chemical Engineering (BSCH)
https://www.usf.edu/engineering/chbme/

Students take course work in advanced chemistry, thermodynamics, fluids, heat and mass transfer, separation processes, and reaction systems. The program prepares students upon graduation to pursue careers in industry or with government organizations.
Civil Engineering (BSCE)
https://www.usf.edu/engineering/cee/#&slider1=3

Civil engineers design and supervise the construction of roads, buildings, airports, tunnels, dams, bridges, and water supply and sewage systems. Students can focus on these specialties: structures, water resources, environmental, transportation, and geotechnical.

Computer Engineering (BSCP)
https://www.usf.edu/engineering/cse/

Learn how to apply engineering principles to the design of computer hardware and software. The program devotes additional time to computer architecture and hardware design, including extensive laboratory work.

Computer Science (BSCS)
https://www.usf.edu/engineering/cse/

Learn design, development, and application of software systems and the theory of computation.

Cybersecurity (BSCyS)
https://www.usf.edu/engineering/cse/

The Cybersecurity program focuses on technology, people, information, and processes to enable assured cyber operations in the context of adversaries. The program is built on a technical foundation of computing and information technology. Students in this program acquire a background in cybersecurity related to information, software, systems, users, and organizations including aspects of policy, human factors, risk management, ethics, and impact on society.

Electrical Engineering (BSEE)
https://www.usf.edu/engineering/ee/

The program 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, MEMS, bioelectrical devices, and power engineering.

Industrial Engineering (BSIE)
https://www.usf.edu/engineering/imse/

Industrial engineering is ideal for individuals interested in formulating mathematical, statistical, and computer simulation models of complex systems in manufacturing, logistics, information, healthcare, transportation, financial, utilities, entertainment, and service. IE’s analyze model results to make engineering decisions for improving system performance and developing public policies.

Information Technology (BSIT)
https://www.usf.edu/engineering/cse/

Learn how to apply computing technologies and fundamental computing knowledge to solve business problems. Some BSIT specialization courses are offered online. A transfer student (who has all GenEd and pre-reqs covered) can complete the BSIT degree partially online.

Mechanical Engineering (BSME)
https://www.usf.edu/engineering/me/

Mechanical engineering is a discipline that applies the principles of physics and materials science for analysis, design, manufacturing, and maintenance of mechanical systems. It is the branch of engineering that involves the production and usage of heat and mechanical power for the design, production, and operation of machines and tools. It is one of the oldest and broadest engineering disciplines.

Accelerated Programs
- B.S.C.H. in Chemical Engineering/M.S.B.E. in Biomedical Engineering
- B.S.C.H. in Chemical Engineering/M.S.C.H. in Chemical Engineering
- B.S.C.H. in Chemical Engineering/M.S.E.M. in Engineering Management
- B.S.C.H. in Chemical Engineering/M.S.M.S.E. in Materials Science and Engineering
- B.S.C.E. in Civil Engineering/M.C.E. in Civil Engineering
MINORS

Biomedical Engineering

This 15 credit hour program is open to all engineering majors (except Biomedical Engineering) and other students that meet the prerequisites.

Computer Science

This 18 credit hour program is open to all students except for department majors. The minor is particularly attractive to students in other engineering majors, and students in the maths and sciences.

Information Technology

The Information Technology minor covers key topics in the discipline - a 21-credit hour program that is attractive to students in other engineering depts. and students in mathematics and the sciences (physics, chemistry, biology) who have no background in software development. The IT minor is open to all students, except students majoring in Computer Science, Computer Engineering, Cybersecurity, and Information Technology, who meet the prerequisites.

CERTIFICATES

Foundations of Cyber Security
https://www.usf.edu/engineering/cse/undergraduate/index.aspx
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 first year. Professional advisors in the College of Engineering provide individualized academic planning and guidance. New students must attend the University’s Orientation program. They will be introduced to the Engineering advisors during this program and receive advisement for their first semester. The student and advisors jointly work out a plan of study that meets both the student’s career objectives and the College of Engineering’s degree requirements. While the College provides advising services to assist students with academic planning, the student is responsible for knowing and meeting all performance standards and graduation requirements.

All Engineering majors are initially advised in the Office of Engineering Student Services. Please visit [https://www.usf.edu/engineering/student-services/academic-advising/index.aspx](https://www.usf.edu/engineering/student-services/academic-advising/index.aspx) a list of advisors and their contact information.

**Contact Information**

University of South Florida  
Engineering Student Services  
4202 E. Fowler Avenue, ENG030  
Tampa, FL 33620-5350  
[https://www.usf.edu/engineering/student-services/](https://www.usf.edu/engineering/student-services/)

Office Hours: Monday through Friday from 8 am until 5 pm  
Office Location: ENC 1302, Engineering Building III room 1302  
Main Phone: 813-974-2684
B.S.B.E. - BIOMEDICAL ENGINEERING (EBC)
(CIP = 14.0701)
TOTAL DEGREE HOURS: 131
http://www.usf.edu/engineering/undergraduate/majors.aspx

Mission Statement
The mission of the USF Department of Medical Engineering is to advance excellence in biomedical engineering education through a joint venture between the Morsani College of Medicine and the College of Engineering by conducting innovative translational research, developing impactful cutting-edge technologies, and preparing highly talented students for success as multidisciplinary global leaders across the fields of engineering, healthcare, and biomedical sciences.

Program Educational Objectives and Student Outcomes
The graduates from the Department of Medical Engineering undergraduate biomedical engineering major are expected to achieve the following educational objectives:

1. To develop into successful, ethical biomedical engineers, healthcare professionals, or other related practitioners guided by an interdisciplinary curriculum, extracurricular activities and targeted internship experiences
2. To continue to pursue and expand their technical and professional knowledge and skills through academic and industrial training and lifelong learning
3. To contribute to the local, national and global communities using experiences and skills acquired through their biomedical engineering education at the University of South Florida (USF).

ABET Student Learning Outcomes
The graduates of the B.S. degree program in Biomedical Engineering at USF will demonstrate that they have:

1. An ability to identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics
2. An ability to apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors
3. An ability to communicate effectively with a range of audiences
4. An ability to recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts
5. An ability to function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives
6. An ability to develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions
7. An ability to acquire and apply new knowledge as needed, using appropriate learning strategies.

Furthermore, the structure of the curriculum provide both breadth and depth across the range of engineering and science topics consistent with the program educational objectives and student outcomes. The curriculum prepares graduates with experience in:

(a) Applying principles of engineering, biology, human physiology, chemistry, calculus-based physics, mathematics (through differential equations) and statistics;
(b) Solving bio/biomedical engineering problems, including those associated with the interaction between living and non-living systems;
(c) Analyzing, modeling, designing, and realizing bio/biomedical engineering devices, systems, components, or processes; and
(d) Making measurements on and interpreting data from living systems.
Entrance Requirements for the Biomedical Engineering Major

College of Engineering students who have fully met the below admission requirements and are in good academic standing, may declare a major in Biomedical Engineering. Prior to being admitted to a department, a student may be permitted to take no more than two departmental engineering courses. Once admitted, the department may have continuation requirements which specify minimum performance standards in core engineering courses which must be met before further registration in the department is granted.

Minimum Admission Requirements for the Biomedical Engineering Major

1. Completion of:
   - Calculus I (MAC 2311 or MAC 2281) and Calculus II (MAC 2312 or MAC 2282) and Calculus III (MAC 2313 or MAC 2283)
   - Calculus-based Physics I with Lab (PHY 2048 and PHY 2048L)
   - Calculus-based Physics II with Lab (PHY 2049 and PHY 2049L)
   - General Chemistry I with Lab (CHM 2045 and CHM 2045L)

2. A minimum grade of C in each course and a 2.75 GPA (based on best attempt) in these courses.
3. A minimum overall GPA of 2.5.
4. A minimum USF GPA of 2.5.

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.

GPA and Grade Requirement

Many courses required for the BSBE degree in Biomedical Engineering have other prerequisite courses. Prerequisite courses must be completed with a C or better before the student is allowed to take the course. This applies to prerequisite courses taken in other departments as well.

STATE MANDATED COMMON COURSE PREREQUISITES

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 General Education 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.

Transfer students are also required to comply with the immunization, foreign language, and continuous enrollment policies of the university.

Students should complete the following prerequisite courses 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 in prerequisite courses.

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.
The following are transferable courses from the Florida College System Institution that will be accepted in the Math/Science/Engineering areas:

**Mathematics:**

**Courses at USF**
- MAC 2281 Engineering Calculus I
- MAC 2282 Engineering Calculus II
- MAC 2283 Engineering Calculus III
- MAP 2302 Differential Equations

**Courses at a Florida College System Institution**
- MAC X311 or MAC X281
- MAC X312 or MAC X282
- MAC X313 or MAC X283
- MAP X302 or MAP X305

**Natural Sciences:**

**Courses at USF**
- CHM 2045/CHM 2045L General Chemistry I with Lab or CHS 2440/2440L General Chemistry for Engineers with Lab
- CHM 2046/CHM X2046L
- PHY 2048/PHY 2048L General Physics I - Calculus Based with Lab
- PHY 2049/PHY 2049L General Physics II - Calculus Based with Lab

**Courses at a Florida College System Institution**
- CHM X045/X045L or CHM X045C or CHS X440/X440L
- CHM X046/X046L or CHM X046C
- PHY X048/X048L or PHY X048C or PHY X043/X048L
- PHY X049/X049L or PHY X049C or PHY X044/X049L

**REQUIREMENTS FOR THE MAJOR IN BIOMEDICAL ENGINEERING**

**TOTAL MAJOR HOURS: 105**

**MAJOR REQUIREMENTS FOR THE B.S.B.E. DEGREE:**

**MAJOR CORE (93 HOURS)**

*Math and Science (47 credit hours)*
- MAC 2281 Engineering Calculus I or MAC 2311 Calculus I
- MAC 2282 Engineering Calculus II or MAC 2312 Calculus II
- MAC 2283 Engineering Calculus III or MAC 2313 Calculus III
- EGN 3433 Modeling and Analysis of Engineering Systems or MAP 2302 Differential Equations
  - (EGN 3433 may be taken by FTIC students and transfer students are accepted with MAP 2302)
- EGN 3443 Probability and Statistics for Engineers
- BSC 2010 Cellular Processes
- BSC 2010L Cellular Processes Laboratory
- BSC 2011 Biodiversity
- BSC 2011L Biodiversity Laboratory
- CHM 2045 General Chemistry I
- CHM 2045L General Chemistry I Laboratory
- CHM 2046 General Chemistry II
- CHM 2046L General Chemistry II Laboratory
- CHM 2210 Organic Chemistry I
- CHM 2210L Organic Chemistry I Laboratory
- PHY 2048 General Physics I
- PHY 2048L General Physics I Laboratory
- PHY 2049 General Physics II
- PHY 2049L General Physics II Laboratory

**Basic Engineering (6 credit hours)**
- EGN 3000 Foundations of Engineering
- EGN 3000L Foundations of Engineering Lab
- EGN 3343 Thermodynamics I

**Specialization (37 credit hours)**
- BME 3032 Biomedical Transport Process
- BME 3053 Computer Programming for Biomedical Engineers
- BME 3312 Molecular and Cellular Engineering
- BME 4056C Biomedical Engineering Lab I
- BME 4057C Biomedical Engineering Lab II
- BME 4100 Biomedical Engineering
- BME 4409 Engineering Physiology
- BME 4503 Biomedical Instrumentation
- BME 4508 Biomedical Signals and Systems Analysis
- BME 4882 Biomedical Engineering Design I
- BME 4883 Biomedical Engineering Design II
- EGN 3311 Statics
- EGN 3373 Introduction to Electrical Systems I

**Technical Writing (3 credit hours)**
- ENC 3246 Communications for Engineers
MAJOR ELECTIVES (12 HOURS)

- 6 hours of BME Upper-Level Electives
- 6 hours of STEM Upper-Level Electives (Students pursuing Medical School will take CHM 2211 Organic Chemistry II/L for five credit hours and a one-credit hour elective)

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.

GPA REQUIREMENTS

Students must have and maintain a minimum 2.0 Math and Science GPA, 2.0 Engineering GPA, 2.0 Specialization GPA, 2.0 USF GPA, and 2.0 Overall GPA.

RESIDENCY REQUIREMENT

Transfer students must complete a minimum number of approved specialization courses in the major at USF. 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. Basic Engineering courses are not considered specialization courses. The University residency requirement must also be met.

A dual degree student must meet the requirements of each major and have a minimum of 18 approved specialization hours taken in the degree granting department beyond those specialization hours required for the first degree.

RESEARCH OPPORTUNITIES

All undergraduate students in any degree program can participate in undergraduate research. There are a number of options to receive academic credit for a mentored research experience and to have the experience show on the official transcript. Students who wish to enroll in an undergraduate research course should consult with their academic advisor to understand how the credit will apply towards the degree requirements. If no credit is needed, students may be eligible to enroll in the 0-credit IDS 2912, IDS 4914 or IDH 4910 courses. These courses will not impact degree credits or GPA but will show on an official transcript and document the experience. The Office of Undergraduate Research will assist students in understanding the various course options.

ADVISING INFORMATION

All incoming freshman and transfer students must meet with one of the college advisors in the Engineering Student Services (ESS).

Engineering Student Services

Office: Engineering Building III (ENC) 1302
Phone: (813) 974-2684
Email: eng-bme@usf.edu
Website

BIOMEDICAL ENGINEERING FACULTY

Interm Chair and Director: Robert Frisina, Jr.; Professors: Robert Frisina, Jr., Huabei Jiang, George Spirou; Research Professor: Hao Yang; Instructors: Olukemi Akintewe, Souheil Zekri.
B.S.B.E. - BIOMEDICAL ENGINEERING (SPRING 2019) (EBI)

(CIP = 14.0501)
TOTAL DEGREE HOURS: 126

http://www.usf.edu/engineering/undergraduate/majors.aspx

Mission Statement

The mission of the USF Department of Medical Engineering is to advance excellence in biomedical engineering education through a joint venture between the Morsani College of Medicine and the College of Engineering by conducting innovative translational research, developing impactful cutting-edge technologies, and preparing highly talented students for success as multidisciplinary global leaders across the fields of engineering, healthcare, and biomedical sciences.

Program Educational Objectives and Student Outcomes

The graduates from the Department of Medical Engineering undergraduate biomedical engineering major are expected to achieve the following educational objectives:

1. To develop into successful, ethical biomedical engineers, healthcare professionals, or other related practitioners guided by an interdisciplinary curriculum, extracurricular activities and targeted internship experiences
2. To continue to pursue and expand their technical and professional knowledge and skills through academic and industrial training and lifelong learning
3. To contribute to the local, national and global communities using experiences and skills acquired through their biomedical engineering education at the University of South Florida (USF).

ABET Student Learning Outcomes

The graduates of the B.S. degree program in Biomedical Engineering at USF will demonstrate that they have:

1. An ability to identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics.
2. An ability to apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors.
3. An ability to communicate effectively with a range of audiences.
4. An ability to recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts.
5. An ability to function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives.
6. An ability to develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions.
7. An ability to acquire and apply new knowledge as needed, using appropriate learning strategies.

Furthermore, the structure of the curriculum provides both breadth and depth across the range of engineering and science topics consistent with the program educational objectives and student outcomes. The curriculum prepares graduates with experience in:

(a) Applying principles of engineering, biology, human physiology, chemistry, calculus-based physics, mathematics (through differential equations) and statistics;
(b) Solving bio/biomedical engineering problems, including those associated with the interaction between living and non-living systems;
(c) Analyzing, modeling, designing, and realizing bio/biomedical engineering devices, systems, components, or processes; and
(d) Making measurements on and interpreting data from living systems.
Entrance Requirements for the Biomedical Engineering Major

College of Engineering students who have fully met the below admission requirements and are in good academic standing, may declare a major in Biomedical Engineering. Prior to being admitted to a department, a student may be permitted to take no more than two departmental engineering courses. Once admitted, the department may have continuation requirements which specify minimum performance standards in core engineering courses which must be met before further registration in the department is granted.

Minimum Transfer Admission Requirements for the Biomedical Engineering Major

1. Completion of:
   - Calculus I (MAC 2311 or MAC 2281) and Calculus II (MAC 2312 or MAC 2282) and Calculus III (MAC 2313 or MAC 2283)
   - Differential Equations (MAP 2302 or EGN 3433)
   - Calculus-based Physics I with Lab (PHY 2048 and PHY 2048L)
   - Calculus-based Physics II with Lab (PHY 2049 and PHY 2049L)
   - General Chemistry I with Lab (CHM 2045 and CHM 2045L)
   - General Chemistry II with Lab (CHM 2046 and CHM 2046L)
   - Organic Chemistry I (CHM 2210)

A minimum grade of C in each course and a 3.5 GPA (based on best attempt) in these courses. No more than two attempts allowed for the prerequisite courses.

2. A minimum overall GPA of 2.0.

3. A minimum USF GPA of 2.0.

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.

GPA and Grade Requirement

Many courses required for the BSBE degree in Biomedical Engineering have other prerequisite courses. Prerequisite courses must be completed with a C or better before the student is allowed to take the course. This applies to prerequisite courses taken in other departments as well.

LIMITED ACCESS

THIS MAJOR HAS ADDITIONAL ADMISSIONS REQUIREMENTS AS LISTED IN THIS SECTION.

This is a limited access program.

STATE MANDATED COMMON COURSE PREREQUISITES

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 General Education 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.

Transfer students are also required to comply with the immunization, foreign language, and continuous enrollment policies of the university.
Students should complete the following prerequisite courses 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 in prerequisite courses.

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.

The following are transferable courses from the Florida College System Institution that will be accepted in the Math/Science/Engineering areas:

**Mathematics:**
- (MAC X311 and MAC X312 and MAC X313) or (MAC X281 and MAC X282 and MAC X283)
- MAP X302

**Natural Sciences:**
- CHM X045C or (CHM X045 and CHM X045L) or (CHM X440 and CHM X440L) or (CHM X095 and CHM X095L)
- PHY X048C or [PHY X048 and (PHY X048L or PHY X064L)]
- PHY X049C or [PHY X049 and (PHY X049L or PHY X064L)]
- (CHM X046 and CHM X046L) or (CHM X096 and CHM X096L) or CHM X046C or CHM X096C
- BSC X010C or (BSC X010 and BSC X010L) or BSC X044L
- CHM X210C or (CHM X210 and CHM X210L)

### REQUIREMENTS FOR THE MAJOR IN BIOMEDICAL ENGINEERING (SPRING 2019)

**TOTAL MAJOR HOURS: 108**

**MAJOR REQUIREMENTS FOR THE B.S.B.E. DEGREE:**

**MAJOR CORE (95 HOURS)**

Major BME or STEM Specialization Track Courses (13 credit hours)

**Math and Science (40 credit hours)**

- MAC 2281 Engineering Calculus I or MAC 2311 Calculus I
- MAC 2282 Engineering Calculus II or MAC 2312 Calculus II
- MAC 2283 Engineering Calculus III or MAC 2313 Calculus III
- MAP 2302 Differential Equations
- BSC 2010 Cellular Processes
- BSC 2010L Cellular Processes Laboratory
- CHM 2045 General Chemistry I
- CHM 2045L General Chemistry I Laboratory
- CHM 2046 General Chemistry II
- CHM 2046L General Chemistry II Laboratory
- CHM 2210 Organic Chemistry I
- CHM 2210L Organic Chemistry I Laboratory
- PHY 2048 General Physics I
• PHY 2048L General Physics I Laboratory
• PHY 2049 General Physics II
• PHY 2049L General Physics II Laboratory

Basic Engineering (21 credit hours)
• EGN 3000 Foundations of Engineering
• EGN 3000L Foundations of Engineering Lab (Creative Thinking)
• EGN 3343 Thermodynamics I
• EGN 3311 Statics
• EGN 3321 Dynamics
• EGN 3365 Materials Engineering I or EMA 4003 Intro to Materials Science
• EGN 3373 Introduction to Electrical Systems I
• EGN 3443 Probability and Statistics for Engineers (Information & Data Literacy)

Specialization (31 credit hours)
• BME 3032 Biomedical Transport Process
• BME 3053 Computer Programming for Biomedical Engineers
• BME 3312 Molecular and Cellular Engineering
• BME 4056C Biomedical Engineering Lab I
• BME 4057C Biomedical Engineering Lab II
• BME 4100 Biomedical Engineering
• BME 4409 Engineering Physiology
• BME 4503 Biomedical Instrumentation
• BME 4508 Biomedical Signals and Systems Analysis
• BME 4882 Biomedical Engineering Design I
• BME 4883 Biomedical Engineering Design II (HIP)

BME or STEM Specialization Track Courses (13 hours)
Students will choose a focused set of courses in the BME Specialization track or a STEM Specialization track.

BME Specialization Track Course Options:
• BME 4332 Cell and Tissue Engineering
• BME 4440 Introduction to Bioastronautics
• BME 4571 Nanomedicine
• BME 5320 or ECH 5740 Theory and Design of Bioprocesses
• ECH 4264 Transport Phenomena
• ECH 4504 Kinetics and Reaction Engineering
• ECH 5740 Theory and Design of Bioprocesses
• EEE 4260C Bioelectricity
• EEE 4271 Bioelectronics
• EEE 4274 MEMS I: Chemical/Biomedical Sensors and Microfabrication
COLLEGE OF ENGINEERING

UNIVERSITY OF SOUTH FLORIDA 2019-20 UNDERGRADUATE CATALOG

- EEE 4506 Biomedical Image Processing
- EML 4575 Principles of Fracture Mechanics

STEM Specialization Track Course Options:
- ATR 5319 Rehabilitation Considerations for Children
- BSC 3022 Biology of Aging
- BSC 4434 Bioinformatics
- MCB 3020 General Microbiology
- MCB 3410 Cell Metabolism
- PCB 3023 Cell Biology
- PCB 4234 Principles of Immunology
- PCB 4843 Principles of Neuroscience
- PHY 3220 Classical Mechanics
- PHY 4424 Optics
- ZOO 4753 Human Histology and Molecular Pathology of Disease

Technical Writing (3 credit hours)
- ENC 3246 Communication for Engineers

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.

GPA REQUIREMENTS
Students must have and maintain a minimum 2.0 Math and Science GPA, 2.0 Engineering GPA, 2.0 Specialization GPA, 2.0 USF GPA, and 2.0 Overall GPA.

RESIDENCY REQUIREMENT
Transfer students must complete a minimum number of approved specialization courses in the major at USF. 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. Basic Engineering courses are not considered specialization courses. The University residency requirement must also be met.

A dual degree student must meet the requirements of each major and have a minimum of 18 approved specialization hours taken in the degree granting department beyond those specialization hours required for the first degree.

RESEARCH OPPORTUNITIES
All undergraduate students in any degree program can participate in undergraduate research. There are a number of options to receive academic credit for a mentored research experience and to have the experience show on the official transcript. Students who wish to enroll in an undergraduate research course should consult with their academic advisor to understand how the credit will apply towards the degree requirements. If no credit is needed, students may be eligible to enroll in the 0-credit IDS 2912, IDS 4914 or IDH 4910 courses. These courses will not impact degree credits or GPA but will show on an official transcript and document the experience. The Office of Undergraduate Research will assist students in understanding the various course options.

ADVISING INFORMATION
All incoming freshman and transfer students must meet with one of the college advisors in the Engineering Student Services (ESS).
BIOMEDICAL ENGINEERING (SPRING 2019) FACULTY

**Interim Chair and Director:** Robert Frisina, Jr.; **Professors:** Robert Frisina, Jr., Huabei Jiang, George Spirou; **Research Professor:** Hao Yang; **Instructors:** Olukemi Akintewe, Souheil Zekri.

B.S.C.H. - CHEMICAL ENGINEERING (ECH)

**(CIP = 14.0701)**

**TOTAL DEGREE HOURS: 131**

http://www.usf.edu/engineering/undergraduate/majors.aspx

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 and product design. Students must also satisfactorily complete a design project as part of their major. Chemical 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 major 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, biomaterials, etc.

**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 Educational Objectives and Student Outcomes**

**Program Educational Objectives**

The overall objective of the Bachelor’s Degree in Chemical Engineering at the University of South Florida is to prepare graduates for successful careers in the chemical engineering and related professions. Accordingly, graduates of this major who have chosen to pursue a career in engineering shall achieve the following within a few years after graduation:

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.

Please refer to the mission statement on the department website for additional information.

**Student Outcomes**

The graduates of the B.S. degree program in Chemical Engineering Program at USF will demonstrate that they have:

1. an ability to identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics.

2. an ability to apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors.

3. an ability to communicate effectively with a range of audiences.
4. an ability to recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts.

5. an ability to function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives.

6. an ability to develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions.

7. an ability to acquire and apply new knowledge as needed, using appropriate learning strategies.

8. an ability to analyze the hazards associated with chemical, physical and/or biological processes.

Student Enrollment Data
Student enrollment data are posted on the departmental web site: https://www.usf.edu/engineering/chbme/about-us/statistics.aspx

Entrance Requirements for the Chemical Engineering Major
College of Engineering students who have fully met the below admission requirements and are in good academic standing, may declare a major in Chemical Engineering. Prior to being admitted to a department, a student may be permitted to take no more than two departmental engineering courses. Once admitted, the department may have continuation requirements which specify minimum performance standards in core engineering courses which must be met before further registration in the department is granted.

Minimum Admission Requirements for the Chemical Engineering Major.
1. Completion of:
   - Calculus I (MAC 2311 or MAC 2281) and Calculus II (MAC 2312 or MAC 2282) and Calculus III (MAC 2313 or MAC 2283)
   - Calculus-based Physics I with Lab (PHY 2048 and PHY 2048L)
   - Calculus-based Physics II with Lab (PHY 2049 and PHY 2049L)
   - General Chemistry I with Lab (CHM 2045 and CHM 2045L)
2. A minimum grade of C in each course and a 2.75 GPA (based on best attempt) in these courses.
3. A minimum overall GPA of 2.0.
4. A minimum USF GPA of 2.0.

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.

GPA and Grade Requirement
Many courses required for the BS degree in Chemical Engineering have other prerequisite courses. Prerequisite courses must be completed with a C- or better before the student is allowed to take the course. This applies to prerequisite courses taken in other departments as well. The only exceptions are the Admissions Requirements courses, which must be passed with a grade of C or better. Students must have and maintain a minimum 2.0 Math and Science GPA, 2.0 Engineering GPA, 2.0 Specialization GPA, 2.0 USF GPA, and 2.0 Overall GPA.

STATE MANDATED COMMON COURSE PREREQUISITES
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 General Education 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.
Transfer students are also required to comply with the immunization, foreign language, and continuous enrollment policies of the university.

Students should complete the following prerequisite courses 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 in prerequisite courses.

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.

The following are transferable courses from the Florida College System Institution that will be accepted in the Math/Science/Engineering areas:

**Mathematics:**

Courses at USF

- MAC 2281 Engineering Calculus I
- MAC 2282 Engineering Calculus II
- MAC 2283 Engineering Calculus III
- MAP 2302 Differential Equations

Courses at a Florida College System Institution

- MAC X311 or MAC X281
- MAC X312 or MAC X282
- MAC X313 or MAC X283
- MAP X302 or MAP X305

**Natural Sciences:**

Courses at USF

- CHM 2045/CHM 2045L General Chemistry I with Lab or CHS 2440/2440L General Chemistry for Engineers with Lab
- CHM 2046/CHM 2046L General Chemistry II with Lab
- PHY 2048/PHY 2048L General Physics I - Calculus Based with Lab
- PHY 2049/PHY 2049L General Physics II - Calculus Based with Lab

Courses at a Florida College System Institution

- CHM X045/X045L or CHM X045C or CHS X440/X440L
- CHM X046/X046L or CHM X046C
- PHY X048/X048L or PHY X048C or PHY X043/X048L
- PHY X049/X049L or PHY X049C or PHY X044/X049L
REQUIREMENTS FOR THE MAJOR IN CHEMICAL ENGINEERING

TOTAL MAJOR HOURS: 110

MAJOR REQUIREMENTS FOR THE B.S.C.H. DEGREE:

MAJOR CORE (95 HOURS)

Math and Science (42 credit hours)

- MAC 2281 Engineering Calculus I or MAC 2311 Calculus I
- MAC 2282 Engineering Calculus II or MAC 2312 Calculus II
- MAC 2283 Engineering Calculus III or MAC 2313 Calculus III
- EGN 3433 Modeling and Analysis of Engineering Systems or MAP 2302 Differential Equations
- CHM 2045 General Chemistry I
- CHM 2045L General Chemistry I Laboratory
- CHM 2046 General Chemistry II
- CHM 2046L General Chemistry II Laboratory
- PHY 2048 General Physics I
- PHY 2048L General Physics I Laboratory
- PHY 2049 General Physics II
- PHY 2049L General Physics II Laboratory
- CHM 2210 Organic Chemistry I
- CHM 2210L Organic Chemistry Laboratory I
- BSC 2010 Biology I Cellular Processes
- CHM 2211 Organic Chemistry II or BCH 3053 Introductory Biochemistry

Basic Engineering (6 credit hours)

- EGN 3000 Foundations of Engineering
- EGN 3000L Foundations of Engineering Lab
- EGN 3343 Thermodynamics I

Specialization (47 credit hours)

- ECH 3002 Introduction to Chemical & Biomedical Engineering
- ECH 3854 Engineering Computations
- ECH 3023 Material and Energy Balances
- ECH 4123 Chemical Engineering Thermodynamics
- ECH 3266 Transport Phenomena I
- ECH 4846 Numerical Methods in Chemical Engineering
- ECH 4418 Separation Processes
- ECH 4267 Transport Phenomena II
- ECH 3240L Chemical Engineering Lab I
- ECH 4504 Kinetics and Reaction Engineering
MAJOR ELECTIVES (15 HOURS)

15 hours of Departmental Upper-Level Electives

- BME 4100 Biomedical Engineering
- BME 4406 Engineering of Biological Systems
- BME 4409 Engineering Physiology
- BME 4571 Nanomedicine
- BME 4931 Selected Topics in Biomedical Engineering
- ECH 4905 Independent Study
- ECH 3702 Instrument Systems I
- ECH 4931 Special Topics in Chemical Engineering II
- ECH 4936 Undergraduate Seminar
- ECH 4944 Industry Internship

Consult with the department undergraduate advisor for additional departmental and/or science electives and special topics courses that may be available.

Entrance Requirements for the Chemical Engineering Major

College of Engineering students who have fully met the below admission requirements and are in good academic standing, may declare a major in Chemical Engineering. Prior to being admitted to a department, a student may be permitted to take no more than two departmental engineering courses. Once admitted, the department may have continuation requirements that specify minimum performance standards in core engineering courses that must be met before further registration in the department is granted.

Minimum Admission Requirements for the Chemical Engineering Major

1. Completion of:
   - Calculus I (MAC 2311 or MAC 2281) and Calculus II (MAC 2312 or MAC 2282) and Calculus III (MAC 2313 or MAC 2283)
   - Calculus-based Physics I with Lab (PHY 2048 and PHY 2048L)
   - Calculus-based Physics II with Lab (PHY 2049 and PHY 2049L)
   - General Chemistry I with Lab (CHM 2045 and CHM 2045L)

2. A minimum grade of C in each course and a 2.75 GPA (based on best attempt) in these courses.

3. A minimum overall GPA of 2.0.

4. A minimum USF GPA of 2.0.
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.

GPA REQUIREMENTS
Students must have and maintain a minimum 2.0 Math and Science GPA, 2.0 Engineering GPA, 2.0 Specialization GPA, 2.0 USF GPA, and 2.0 Overall GPA.

GRADING REQUIREMENT
Many courses required for the BS degree in Chemical Engineering have other prerequisite courses. Prerequisite courses must be completed with a C- or better before the student is allowed to take the course. This applies to prerequisite courses taken in other departments as well. The only exceptions are the Admissions Requirements courses, which must be passed with a grade of C or better (C- is insufficient).

RESIDENCY REQUIREMENT
Transfer students must complete a minimum number of approved specialization courses in the major at USF. 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. Basic engineering courses are not considered specialization courses. The University residency requirement must also be met.

A dual degree student must meet the requirements of each major and have a minimum of 18 approved specialization hours taken in the degree granting department beyond those specialization hours required for the first degree.

RESEARCH OPPORTUNITIES
The Research Experiences for Undergraduate Students program in the 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.

There are a number of options to receive academic credit for a mentored research experience and to have the experience show on the official transcript. Students who wish to enroll in an undergraduate research course should consult with their academic advisor to understand how the credit will apply towards the degree requirements. If no credit is needed, students may be eligible to enroll in the 0-credit IDS 2912, IDS 4914 or IDH 4910 courses. These courses will not impact degree credits or GPA but will show on an official transcript and document the experience.

INTERNSHIP OPPORTUNITIES
The College of Engineering and USF’s Career Services Cooperative Education (Co-Op) program provides services for students interested in experiential educational 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 first year in the College of Engineering and pursue actual internships during their sophomore, junior and senior years.

ACCELERATED B.S/M.S. PROGRAM
Students majoring in Chemical Engineering have the option to pursue one of the following accelerated programs:

- B.S.C.H. in Chemical Engineering and M.S.B.E. in Biomedical Engineering
- B.S.C.H. in Chemical Engineering and M.S.C.H. in Chemical Engineering
- B.S.C.H. in Chemical Engineering and M.S.E.M. in Engineering Management
- B.S.C.H. in Chemical Engineering and M.S.M.S.E. in Materials Science and Engineering
The Bachelor of Science in Chemical Engineering degree is accredited by the Engineering Accreditation Commission of ABET, [http://www.abet.org](http://www.abet.org).

For questions about college and departmental admission, transferring from another institution or registration for prerequisite courses: [http://www.usf.edu/engineering/student-services/academic-advising/index.aspx](http://www.usf.edu/engineering/student-services/academic-advising/index.aspx).


Civil engineers will be entrusted by society to create a sustainable world and enhance the global quality of life. Civil engineers will serve as master planners, designers, constructors, and operators of society's economic and social engine, the built environment (i.e., infrastructure); innovators and integrators of ideas and technology across the public, private, and academic sectors; managers of risk and uncertainty caused by natural events, accidents, and other threats; stewards of the natural environment and its resources; and, leaders in discussions and decisions shaping public environmental and infrastructure policy.

Mission Statement

The Bachelor of Science in Civil Engineering in 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 major'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's Educational Objectives and Student Outcomes

The Civil Engineering major and curriculum of the Department of Civil and Environmental Engineering are designed to meet the needs of all students within the context of the Major's Mission Statement. The Major Educational Objectives associated with the Major's Mission Statement are:

1. Graduates can obtain positions in both public and private organizations.
2. Graduates are continuing their professional development by extending their professional knowledge through independent learning, continuing education courses, conferences, workshops, short courses, graduate study and involvement in professional societies.
3. Graduates who are working in public or private organizations which encourage professional registration, will have made appropriate progress towards achieving that registration.
The following list defines the Student Outcomes of the Civil and Environmental Engineering program:

1. An ability to identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics
2. An ability to apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors
3. An ability to communicate effectively with a range of audiences
4. An ability to recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts
5. An ability to function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives.
6. An ability to develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions
7. An ability to acquire and apply new knowledge as needed, using appropriate learning strategies

Please refer to the mission statement on the department website for additional information.

Entrance and Continuation Requirements for the Civil Engineering Major

College of Engineering students who have fully met the below admission requirements and are in good academic standing, may declare a major in Civil Engineering. Prior to being admitted to a department, a student may be permitted to take no more than two departmental engineering courses. Once admitted, the Department may have continuation requirements which specify minimum performance standards in core engineering courses which must be met before further registration in the Department is granted.

Minimum Admission Requirements for the Civil Engineering Department

1. Completion of:
   - Calculus I (MAC 2311 or MAC 2281) and Calculus II (MAC 2312 or MAC 2282) and Calculus III (MAC 2313 or MAC 2283)
   - Calculus-based Physics I with Lab (PHY 2048 and PHY 2048L)
   - Calculus-based Physics II with Lab (PHY 2049 and PHY 2049L)
   - General Chemistry I with Lab (CHM 2045 and CHM 2045L) or (CHS 2440 and CHS 2440L)
   with a minimum grade of a C in each course and a 3.0 GPA (based on best attempt) in these prerequisites
2. A minimum overall GPA of 2.0
3. A minimum USF GPA of 2.0

Minimum Continuation Requirements for the Civil Engineering Department

Continuation requires a minimum grade of C- as well as a 2.5 GPA (based on best attempt) for the following courses:

- EGN 3311 Statics
- EGN 3331 Mechanics of Materials
- EGN 3353 Basic Fluid Mechanics
- EGN 3365 Materials

GPA and Grade Requirements

Unless otherwise stated, the minimum acceptable grade in all BSCE required courses is a C- or higher.

Tracks

In addition to designated common coursework in engineering mechanics, civil, and environmental engineering, students undertake a concentration of 18 hours of coursework plus a 3-hour capstone design course and a 1-hour Professional and Ethical Issues in Engineering. These courses are based on the student's choice of track.
In addition to the College’s graduation requirements, the department has the following policies:

- All students must participate in mandatory advising prior to each term.
- All students must participate in department assessment activities and successfully complete an exit interview before graduating.
- All students must consider the advice of the Department to complete and pass the Fundamentals of Engineering Exam (F.E. Exam).
- All students must periodically provide writing samples as part of the department’s writing assessment program.

STATE MANDATED COMMON COURSE PREREQUISITES

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 General Education 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.

Transfer students are also required to comply with the immunization, foreign language, and continuous enrollment policies of the university.

Students should complete the following prerequisite courses 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 in prerequisite courses.

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.

The following are transferable courses from a Florida College System institution that will be accepted in the Math/Science/Engineering areas:

**Mathematics:**

Courses at USF

- MAC 2281 Engineering Calculus I
- MAC 2282 Engineering Calculus II
- MAC 2283 Engineering Calculus III
- MAP 2302 Differential Equations

Courses at a Florida College System Institution

- MAC X311 or MAC X281
- MAC X312 or MAC X282
- MAC X313 or MAC X283
- MAP X302 or MAP X305

**Natural Sciences:**

Courses at USF

- CHM 2045/CHM 2045L General Chemistry I with Lab or CHS 2440/2440L General Chemistry for Engineers with Lab
- PHY 2048/PHY 2048L General Physics I - Calculus Based with Lab
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- PHY 2049/PHY 2049L General Physics II - Calculus Based with Lab

Courses at a Florida College System Institution
- CHM X045/X045L or CHM X045C or CHS X440/X440L
- PHY X048/X048L or PHY X048C or PHY X043/X048L or PHY X041/X048L
- PHY X049/X049L or PHY X049C or PHY X044/X049L or PHY X042/X049L

REQUIREMENTS FOR THE MAJOR IN CIVIL ENGINEERING

TOTAL MAJOR HOURS: 117

MAJOR REQUIREMENTS FOR THE B.S.C.E. DEGREE:

MAJOR CORE (117 HOURS)

Math and Science (27 credit hours)
- MAC 2281 Engineering Calculus I or MAC 2311 Calculus I
- MAC 2282 Engineering Calculus II or MAC 2312 Calculus II
- MAC 2283 Engineering Calculus III or MAC 2313 Calculus III
- MAP 2302 Differential Equations or EGN 3433 Modeling and Analysis of Engineering Systems
- CHS 2440 General Chemistry for Engineers or CHM 2045 General Chemistry I
- CHS 2440L General Chemistry for Engineers Laboratory or CHM 2045L General Chemistry I Laboratory
- PHY 2048 General Physics I (Calculus Based)
- PHY 2048L General Physics I Laboratory
- PHY 2049 General Physics II (Calculus Based)
- PHY 2049L General Physics II Laboratory

Basic Engineering (28 credit hours)
- EGN 3000 Foundations of Engineering
- EGN 3000L Foundations of Engineering lab
- GLY 3850 Geology for Engineers
- EGN 1113 Introduction to Design Graphics
- EGN 3321 Dynamics
- EGN 4453 Numerical and Computer Tools I in Civil & Environmental Engineering
- EGN 3331 Mechanics of Materials
- EGN 3331L Mechanics of Materials Laboratory
- EGN 3343 Thermodynamics I
- EGN 3443 Probability and Statistics for Engineers
- EGN 3615 Engineering Economics with Social and Global Implications
- EGN 3373 Introduction to Electrical Systems I

Continuation Courses (12 credit hours)
- EGN 3311 Statics
• EGN 3365 Materials Engineering I
• EGN 3331 Mechanics of Materials
• EGN 3353 Basic Fluid Mechanics

Specialization (26 credit hours)
• EGN 4454 Numerical and Computer Tools II in Civil & Environmental Engineering
• ENV 4001 Environmental Systems Engineering
• TTE 4004 Transportation Engineering I
• CES 3102 Structures I
• CWR 4202 Hydraulics
• ENV 4004L Environmental Engineering Lab
• CEG 4011 Geotechnical Engineering I
• CEG 4011L Geotechnical Engineering Laboratory
• CGN 4122 Professional and Ethical Issues in Engineering
• CGN 3021L Civil Engineering Laboratory

Technical Writing (3 credit hours)
• ENC 3246 Communications for Engineers

Capstone Design (3 credit hours)
• Structures/Materials/Geotechnical Track: CES 4750 Capstone Structural/Geotechnical/Material Design
• Geotechnical/Transportation Track: CEG 4850 Capstone Geotechnical/Transportation Design
• Environmental/Water Resources Track: CWR 4812 Capstone Water Resources/Environmental Design

Civil Engineering Track (18 credits) and Capstone Design Requirements
Civil Engineering students choose one of the three tracks listed below:

• Structures/Materials/Geotechnical Track
  o CES 4702 Concepts of Concrete Design
  o CES 4605 Concepts of Steel Design
  o CGN 4851 Concrete Construction Materials
  o CEG 4012 Geotechnical Engineering II or TTE 4005 Transportation Engineering II
  o Technical Elective (six credit hours total, from the approved list of courses)
  o CES 4750 Capstone Structural/Geotechnical/Material Design

• Geotechnical/Transportation Track
  o CGN 4851 Concrete Construction Materials
  o CEG 4012 Geotechnical Engineering II
  o TTE 4005 Transportation Engineering II
  o Technical Elective (nine credit hours total, from the approved list of courses)
  o CEG 4850 Capstone Geotechnical/Transportation Design

• Environmental/Water Resources Track
  o ENV 4417 Water Quality and Treatment
  o CWR 4540 Water Resources Engineering I
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- CEG 4012 Geotechnical Engineering II or TTE 4005 Transportation Engineering II
- Technical Elective (nine credit hours total, from the approved list of courses)
- CWR 4812 Capstone Water Resources/Environmental Design

The approved list of technical elective courses for the tracks include: CCE 4031, CEG 5115, CGN 4933, CWR 4541, SUR 2101C, and TTE 4003. Consult with the department undergraduate advisor for additional electives that may be available.

Entrance Requirements for the Civil Engineering Department

College of Engineering students who have fully met the below admission requirements and are in good academic standing, may declare a major in Civil Engineering. Prior to being admitted to a department, a student may be permitted to take no more than two departmental engineering courses. Once admitted, the Department may have continuation requirements that specify minimum performance standards in core engineering courses that must be met before further registration in the Department is granted.

Minimum Admission Requirements for the Civil Engineering Department

1. Completion of:
   - Calculus I (MAC 2311 or MAC 2281) and Calculus II (MAC 2312 or MAC 2282) and Calculus III (MAC 2313 or MAC 2283)
   - Calculus-based Physics I with Lab (PHY 2048 and PHY 2048L)
   - Calculus-based Physics II with Lab (PHY 2049 and PHY 2049L)
   - General Chemistry I with Lab (CHM 2045 and CHM 2045L) or (CHS 2440 and CHS 2440L)

   with a minimum grade of a C in each course and a 3.0 GPA (based on best attempt) in these prerequisites

2. A minimum overall GPA of 2.0

3. A minimum USF GPA of 2.0

Minimum Continuation Requirements for the Civil Engineering Department

Continuation requires a minimum grade of C- as well as a 2.5 GPA (based on best attempt) for the following courses:

- EGN 3311 Statics
- EGN 3331 Mechanics of Materials
- EGN 3353 Basic Fluid Mechanics
- EGN 3365 Materials

Tracks

In addition to designated common coursework in engineering mechanics, civil, and environmental engineering, students undertake a concentration of 18 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 participate in mandatory advising prior to each term.
- All students must participate in department assessment activities and successfully complete an exit interview before graduating.
- All students must consider the advice of the College to complete and pass the Fundamentals of Engineering Exam (F.E. Exam).
- All students must periodically provide writing samples as part of the department’s writing assessment program.
GPA REQUIREMENTS

Students must have and maintain a minimum 2.0 Engineering GPA, 2.0 Specialization GPA, 2.0 USF GPA, 2.0 Overall GPA, and 2.5 Continuation GPA.

COURSE GRADE REQUIREMENT

A total of only two D grades are allowed in all BSCE required engineering, and most specialization courses. Students cannot graduate with Ds in the following lists of courses that correspond to their track (specialty):

- Environmental/Water track: Environmental Systems Engineering, Hydraulics, Water Quality and Treatment, Water Resources Engineering I, and Capstone Design (CWR 4812)

RESIDENCY REQUIREMENT

Transfer students must complete a minimum number of approved specialization courses in the major at USF. 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. Basic engineering courses are not considered specialization courses. The University residency requirement must also be met.

A dual degree student must meet the requirements of each major and have a minimum of 18 approved specialization hours taken in the degree granting department beyond those specialization hours required for the first degree.

RESEARCH OPPORTUNITIES

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.

There are a number of options to receive academic credit for a mentored research experience and to have the experience show on the official transcript. Students who wish to enroll in an undergraduate research course should consult with their academic advisor to understand how the credit will apply towards the degree requirements. If no credit is needed, students may be eligible to enroll in the 0-credit IDS 2912, IDS 4914 or IDH 4910 courses. These courses will not impact degree credits or GPA but will show on an official transcript and document the experience.

INTERNSHIP OPPORTUNITIES

The College of Engineering and USF’s Career Services Cooperative Education (Co-Op) program provides services for students interested in experiential educational 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 first year in the College of Engineering and pursue actual internships during their sophomore, junior and senior years.

ACCELERATED B.S/M.S. PROGRAM

Students majoring in Civil Engineering have the option to pursue one of the following accelerated programs:

- B.S.C.E. in Civil Engineering and M.C.E. in Civil Engineering
- B.S.C.E. in Civil Engineering and M.S.C.E. in Civil Engineering
- B.S.C.E. in Civil Engineering and M.E.V.E. in Environmental Engineering
- B.S.C.E. in Civil Engineering and M.S.E.V. in Environmental Engineering
The Bachelor of Science degree in Civil Engineering is accredited by the Engineering Accreditation Commission of ABET, http://www.abet.org.

**ADVISING INFORMATION**

All incoming freshman and transfer students must meet with one of the college advisors in the Engineering Student Services (ESS).

**Engineering Student Services**

Office: Engineering Building III (ENC) 1302

Phone: (813) 974-2684

Email: eng-advisingmail@usf.edu

Website

Students who have completed the entrance requirements and are accepted into the major: http://www.usf.edu/engineering/cee/about-us/contact-us.aspx.

**CIVIL ENGINEERING FACULTY**


**B.S.C.P. - COMPUTER ENGINEERING (ECP)**

(CIP = 14.0901 - TRACK 1 OF 3)

TOTAL DEGREE HOURS: 128

http://www.usf.edu/engineering/undergraduate/majors.aspx

The Computer Engineering program emphasizes the application of engineering principles to the design of computer hardware and software, and devotes additional time to 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.

**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, computer engineering, information technology, and cybersecurity through internationally recognized research and education, as well as technology transfer.
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 effective classroom practices, active learning styles of teaching, and opportunities for meaningful interactions between students and faculty.

**Program Educational Objectives and Student Outcomes**

The Department has established the following program educational objectives for Computer Engineering graduates.

**Objective 1:** Our graduates will apply their knowledge and skills to succeed in their careers and/or obtain advanced degrees.
Objective 2: Our graduates will function ethically and responsibly, and will remain informed and involved as full participants in our profession and society.

Objective 3: Our graduates will creatively solve problems, communicate effectively, and successfully function in multi-disciplinary teams.

Objective 4: Our graduates will apply 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.

The following are the Student Outcomes. Graduates of the program will have an ability to:

1. Apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors.

2. Communicate effectively with a range of audiences.

3. Recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts.

4. Function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives.

5. Develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions.

6. Acquire and apply new knowledge as needed, using appropriate learning strategies.

Student Enrollment Data

Student enrollment data is posted on the Department website.

Entrance and Continuation Requirements for the Computer Engineering Major

College of Engineering students who have fully met the below admission requirements and are in good academic standing, may declare a major in Computer Engineering. Prior to being admitted to a major, a student may take no more than two Departmental courses.

Minimum Admission Requirements for the Computer Engineering Major

1. Completion of:
   - English Composition I (ENC 1101) and English Composition II (ENC 1102)
   - Calculus I (MAC 2311 or MAC 2281) and Calculus II (MAC 2312 or MAC 2282)
   - Calculus-based Physics I with Lab (PHY 2048 and PHY 2048L)
   - Calculus-based Physics II with Lab (PHY 2049 and PHY 2049L)

All students must complete the equivalent of USF Composition I & II, Engineering Calculus I & II and Calculus-based General Physics I & II (with Labs) with minimum grades of C in each course (grades of C- are insufficient). The minimum overall average GPA in these six courses required for admission to the Department is between 3.0 and 3.5 for any given year. The minimum acceptable average GPA will be posted on the Department's website one year prior to the Fall Semester that the revised GPA is applicable. The computed GPA is based on the best attempts in these courses.

2. Completion of COP 2510 with a minimum grade of B (grade of B- is insufficient) or another introductory programming course covering a modern programming language, with an emphasis on programming concepts and design methodology with a minimum grade of B (grade of B- is insufficient).

3. A minimum overall GPA of 2.0

4. A minimum USF GPA of 2.0
Minimum Continuation Requirements for the Computer Engineering Major

Students meeting the above requirements may be admitted to either of the Computer Engineering or Computer Science degree tracks; however, continuation in the major will be allowed only for students who complete CDA 3103 and COP 3514 with minimum grades of B, based on best attempts in each course (grades of B- are insufficient). These requirements must be met with a maximum of two attempts allowed for each course.

GPA and Grade Requirements

Unless otherwise stated, the minimum acceptable grade in all BSCP required math, science, and engineering courses is a C or higher (C- is insufficient). The minimum acceptable grade in specialization courses is a C-, except as stated in the major admission and continuation requirements. Students must have and maintain a minimum 2.0 Math and Science GPA, 2.0 Engineering GPA, 2.0 Specialization GPA, 2.0 USF GPA, and 2.0 Overall GPA.

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 and/or survey as a graduation requirement

STATE MANDATED COMMON COURSE PREREQUISITES

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 General Education 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.

Transfer students are also required to comply with the immunization, foreign language, and continuous enrollment policies of the university.

Students should complete the following prerequisite courses 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 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.

Mathematics:

Courses at USF

- MAC 2281 Engineering Calculus I
- MAC 2282 Engineering Calculus II
- MAC 2283 Engineering Calculus III
- MAP 2302 Differential Equations

Courses at a Florida College System Institution

- MAC X311 or MAC X281
- MAC X312 or MAC X282
- MAC X313 or MAC X283
- MAP X302
Natural Sciences:

Courses at USF

- CHM 2045/CHM 2045L General Chemistry I with Lab or CHS 2440/2440L General Chemistry for Engineers with Lab
- PHY 2048/PHY 2048L General Physics I - Calculus Based with Lab
- PHY 2049/PHY 2049L General Physics II - Calculus Based with Lab
- COP XXXX Intro Programming In C, C++, JAVA or equivalent Language

Courses at a Florida College System Institution

- CHM X045/X045L or CHM X045C or CHS X440/X440L
- PHY X048/X048L or PHY X048C
- PHY X049/X049L or PHY X049C
- COP XXXX

REQUIREMENTS FOR THE MAJOR IN COMPUTER ENGINEERING

TOTAL MAJOR HOURS: 110

MAJOR REQUIREMENTS FOR THE B.S.C.P. DEGREE:

MAJOR CORE (98 HOURS)

Math and Science (27 credit hours)

- MAC 2281 Engineering Calculus I or MAC 2311 Calculus I
- MAC 2282 Engineering Calculus II or MAC 2312 Calculus II
- MAC 2283 Engineering Calculus III or MAC 2313 Calculus III
- MAP 2302 Differential Equations or EGN 3433 Modeling and Analysis of Engineering Systems
- CHM 2045 General Chemistry I or CHS 2440 Chemistry for Engineers
- CHM 2045L General Chemistry I Laboratory or CHS 2440L Chemistry for Engineers Lab
- PHY 2048 General Physics I
- PHY 2048L General Physics I Laboratory
- PHY 2049 General Physics II
- PHY 2049L General Physics II Laboratory

Basic Engineering (17 credit hours)

- EGN 3000 Foundations of Engineering
- EGN 3000L Foundations of Engineering Lab
- EGN 3373 Introduction to Electrical Systems I
- EGN 3443 Probability and Statistics for Engineers
- EGN 3615 Engineering Economics with Social and Global Implications
- EGN 4450 Introduction to Linear Systems
- EEE 3394 Electrical Engineering Science 1 - Electronic Materials

Specialization (45 credit hours)

- COP 2510 Programming Concepts
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- COP 3514 Program Design
- COP 3331 Object-Oriented Software Design
- COP 4530 Data Structures
- COP 4600 Operating Systems
- CDA 3103 Computer Organization
- CDA 3201 Computer Logic and Design
- CDA 3201L Computer Logic and Design Lab
- CDA 4203 Computer System Design
- CDA 4203L Computer System Design Lab
- CDA 4205 Computer Architecture
- CDA 4213 CMOS-VLSI Design
- CDA 4213L CMOS-VLSI Design Lab
- COT 3100 Introduction to Discrete Structures
- COT 4400 Analysis of Algorithms
- CIS 4250 Ethical Issues and Professional Conduct
- CIS 4910 Computer Science Project

Composition and Technical Writing (9 credit hours)
- ENC 1101 Composition I
- ENC 1102 Composition II
- ENC 3246 Communication for Engineers

MAJOR ELECTIVES (12 HOURS)

Departmental upper-level technical electives are classified as "software", "hardware", and "theory". Computer Engineering students must choose 6 hours of hardware electives and an additional, non-overlapping 6 hours of "software", "hardware", or "theory" technical electives in the Department. A maximum of six (6) hours combined of CIS 4900 and/or any other supervised individual study (that is, CIS 4915 and CIS 4940) are allowed as Departmental upper-level technical electives.

- Software Electives:
  - CAP 4034 Computer Animation Fundamentals
  - CAP 4063 Web Application Design
  - CAP 4401 Image Processing Fundamentals
  - CAP 4410 Computer Vision
  - CAP 4662 Introduction to Robotics
  - CAP 4800 Systems Simulation
  - CEN 4020 Software Engineering
  - CEN 4072 Software Testing
  - CEN 4721 User Interface Design
  - CIS 4364 Cryptology and Information Security
  - CNT 4004 Computer Networks I
  - CNT 4411 Computing and Network Security
COLLEGE OF ENGINEERING

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- CNT 4504 Computer Networks II
- COP 3257 JAVA Experienced Programmers
- COP 4020 Programming Languages
- COP 4365 Software Systems Development
- COP 4620 Compilers
- COP 4656 Software Development for Mobile Devices
- COP 4710 Database Design

- Hardware Electives:
  - CDA 4253 FPGA Design and Analysis
  - CDA 4621 Control of Mobile Robots

- Theory Electives:
  - COT 4115 Advanced Discrete Structures with Cryptology
  - COT 4210 Automata Theory and Formal Languages
  - COT 4521 Computational Geometry

- Other Courses
  - CIS 4900 Independent Study
  - CIS 4915 Supervised Research
  - CIS 4940 Industry Internship

The Department’s website undergraduate section contains the most up to date list of Departmental upper-level technical electives. The prerequisite for most (but not all) Departmental upper-level technical electives is CDA 3201 Computer Logic and Design and COP 4530 Data Structures. Consult with the Department Undergraduate Advisor to learn more about available electives and which courses will and will not count towards the degree. Additional electives may be available with a special topics course number (typically, CIS 4930).

GPA REQUIREMENTS

Students must have and maintain a minimum 2.0 Math and Science GPA, 2.0 Engineering GPA, 2.0 Specialization GPA, 2.0 USF GPA, and 2.0 Overall GPA.

COURSE GRADE REQUIREMENT

Continuation in the major requires successful completion of CDA 3103 and COP 3514 with minimum grades of B, based on best attempts in each course. Grades of B- are insufficient. These requirements must be met with a maximum of two attempts allowed for each course.

GRADING REQUIREMENT

Unless otherwise stated, the minimum acceptable grade in all BSCP required math, science, and engineering courses is a C or higher (C- is insufficient). The minimum acceptable grade in specialization courses is a C-, except as stated in the major admission and continuation requirements.

RESIDENCY REQUIREMENT

Transfer students must complete a minimum number of approved specialization courses in the major at USF. 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. Basic engineering courses are not considered specialization courses. The University residency requirement must also be met.

A dual degree student must meet the requirements of each major and have a minimum of 18 approved specialization hours taken in the degree granting department beyond those specialization hours required for the first degree.
RESEARCH OPPORTUNITIES

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. Professors and graduate students serve as research partners and mentors as undergraduate research assistants participate in the scientific process and gain relevant experience.

There are a number of options to receive academic credit for a mentored research experience and to have the experience show on the official transcript. Students who wish to enroll in an undergraduate research course should consult with their academic advisor to understand how the credit will apply towards the degree requirements. If no credit is needed, students may be eligible to enroll in the 0-credit IDS 2912 or IDS 4914 courses. These courses will not impact degree credits or GPA but will show on an official transcript and document the experience.

INTERNSHIP OPPORTUNITIES

The College of Engineering and USF’s Career Services Cooperative Education (Co-Op) program provides services for students interested in experiential educational 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 first year in the College of Engineering and pursue actual internships during their sophomore, junior and senior years. See the Department Undergraduate Advisor for more information on earning academic credit for internships.

ACCELERATED B.S/M.S. PROGRAM

Students majoring in Computer Engineering have the option to pursue one of the following accelerated programs:

- Accelerated B.S. in Computer Engineering and M.S. in Computer Engineering
- Accelerated B.S. in Computer Engineering and M.S. in Computer Science
- Accelerated B.S. in Computer Engineering and M.S. in Information Technology

ACCREDITATION INFORMATION

The Bachelor of Science in Computer Engineering degree is accredited by the Engineering Accreditation Commission of ABET, [http://www.abet.org](http://www.abet.org).

ADVISING INFORMATION

Department Undergraduate Advisor: [http://www.usf.edu/engineering/cse/undergraduate/contacts.aspx](http://www.usf.edu/engineering/cse/undergraduate/contacts.aspx)

COMPUTER ENGINEERING FACULTY

B.S.C.S. - COMPUTER SCIENCE (BCS)

(CIP = 11.0101 - TRACK 1 OF 6)
TOTAL DEGREE HOURS: 120

http://www.usf.edu/engineering/undergraduate/majors.aspx

The Computer Science program focuses on the design, development, and application of software systems. 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.

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, computer engineering, information technology, and cybersecurity through internationally recognized research and education, as well as technology transfer.
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 effective classroom practices, active learning styles of teaching, and opportunities for meaningful interactions between students and faculty.

Program Educational Objectives and Student Outcomes

The Department has established the following program educational objectives for Computer Science graduates.

Objective 1: Our graduates will apply their knowledge and skills to succeed in their careers and/or obtain advanced degrees.

Objective 2: Our graduates will function ethically and responsibly, and will remain informed and involved as full participants in our profession and society.

Objective 3: Our graduates will creatively solve problems, communicate effectively, and successfully function in multi-disciplinary teams.

Objective 4: Our graduates will apply principles and practices of computing grounded in mathematics and science to successfully complete software-related projects to meet customer business objectives and/or productively engage in research.

The following are the Student Outcomes. Graduates of the program will have an ability to:

1. Analyze a complex computing problem and to apply principles of computing and other relevant disciplines to identify solutions.
2. Design, implement, and evaluate a computing-based solution to meet a given set of computing requirements in the context of the program's discipline.
3. Communicate effectively in a variety of professional contexts.
4. Recognize professional responsibilities and make informed judgments in computing practice based on legal and ethical principles.
5. Function effectively as a member or leader of a team engaged in activities appropriate to the program's discipline.
6. Apply computer science theory and software development fundamentals to produce computing-based solutions. [CS]

Student Enrollment Data

Student enrollment data is posted on the Department website.
Entrance and Continuation Requirements for the Computer Science Major

College of Engineering students who have fully met the below admission requirements and are in good academic standing, may declare a major in Computer Science. Prior to being admitted to a major, a student may take no more than two Departmental courses. **Minimum Admission Requirements for the Computer Science Major**

1. Completion of:
   - English Composition I (ENC 1101) and English Composition II (ENC 1102)
   - Calculus I (MAC 2311 or MAC 2281) and Calculus II (MAC 2312 or MAC 2282)
   - Calculus-based Physics I with Lab (PHY 2048 and PHY 2048L)
   - Calculus-based Physics II with Lab (PHY 2049 and PHY 2049L)

All students must complete the equivalent of USF Composition I & II, Engineering Calculus I & II and Calculus-based General Physics I & II (with labs) with minimum grades of C in each course (grades of C- are insufficient). The minimum overall average GPA in these six courses required for admission to the Department is between 3.0 and 3.5 for any given year. The minimum acceptable average GPA will be posted on the Department’s website one year prior to the Fall Semester that the revised GPA is applicable. The computed GPA is based on the best attempts in these courses.

2. Completion of COP 2510 with a minimum grade of B (grade of B- is insufficient) or another introductory programming course covering a modern programming language, with an emphasis on programming concepts and design methodology with a minimum grade of B (grade of B- is insufficient).

3. A minimum overall GPA of 2.0
4. A minimum USF GPA of 2.0

**Minimum Continuation Requirements for the Computer Science Major**

Students meeting the above requirements may be admitted to either of the Computer Science or Computer Engineering degree tracks; however, continuation in the major will be allowed only for students who complete CDA 3103 and COP 3514 with minimum grades of B, based on best attempts in each course (grades of B- are insufficient). These requirements must be met with a maximum of two attempts allowed for each course.

**GPA and Grade Requirements**

Unless otherwise stated, the minimum acceptable grade in all BSCS required math, science, and engineering courses is a C or higher (C- is insufficient). The minimum acceptable grade in specialization courses is a C-, except as stated in the major admission and continuation requirements. Students must have and maintain a minimum 2.0 Math and Science GPA, 2.0 Engineering GPA, 2.0 Specialization GPA, 2.0 USF GPA, and 2.0 Overall GPA.

**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 and/or survey as a graduation requirement.

**STATE MANDATED COMMON COURSE PREREQUISITES**

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 General Education 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.

Transfer students are also required to comply with the immunization, foreign language, and continuous enrollment policies of the university.

Students should complete the following prerequisite courses 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 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.

- COP XXXX Introductory Programming in C, C++, Java, or equivalent language. Choose programming language required by the university to which the student wishes to transfer.
- MAC X311 Calculus I or MAC X281
- MAC X312 Calculus II or MAC X282
- PHY X048/X048L General Physics I with Lab or PHY X048C
- PHY X049/X049L General Physics II with Lab or PHY X049C
- XXX XXXX Six credit hours of Science courses for Science majors

**REQUIREMENTS FOR THE MAJOR IN COMPUTER SCIENCE**

**TOTAL MAJOR HOURS: 99**

**MAJOR REQUIREMENTS FOR THE B.S.C.S. DEGREE:**

**MAJOR CORE (77 HOURS)**

**Math and Science (20 credit hours)**
- MAC 2281 Engineering Calculus I or MAC 2311 Calculus I
- MAC 2282 Engineering Calculus II or MAC 2312 Calculus II
- MAC 2283 Engineering Calculus III or MAC 2313 Calculus III
- PHY 2048 General Physics I
- PHY 2048L General Physics I Laboratory
- PHY 2049 General Physics II
- PHY 2049L General Physics II Laboratory

**Basic Engineering (8 credit hours)**
- EGN 3000 Foundations of Engineering
- EGN 3000L Foundations of Engineering Lab
- EGN 3443 Probability and Statistics for Engineers
- EGN 4450 Introduction to Linear Systems

**Specialization (40 credit hours)**
- COP 2510 Programming Concepts
- COP 3514 Program Design
- COP 3331 Object-Oriented Software Design
- COP 4530 Data Structures
- COP 4600 Operating Systems
- CDA 3103 Computer Organization
- CDA 3201 Computer Logic and Design
- CDA 3201L Computer Logic Design Lab
- CDA 4205 Computer Architecture
- CEN 4020 Software Engineering
- COT 3100 Introduction to Discrete Structures
- COT 4400 Analysis of Algorithms
- CNT 4419 Secure Coding
- CIS 4250 Ethical Issues and Professional Conduct

Composition and Technical Writing (9 credit hours)
- ENC 1101 Composition I
- ENC 1102 Composition II
- ENC 3246 Communication for Engineers

MAJOR ELECTIVES (22 HOURS)

- Software Electives:
  - CAP 4034 Computer Animation Fundamentals
  - CAP 4063 Web Application Design
  - CAP 4401 Image Processing Fundamentals
  - CAP 4410 Computer Vision
  - CAP 4662 Introduction to Robotics
  - CAP 4800 Systems Simulation
  - CEN 4072 Software Testing
  - CEN 4721 User Interface Design
  - CIS 4364 Cryptology and Information Security
  - CNT 4004 Computer Networks I
  - CNT 4411 Computing and Network Security
  - CNT 4504 Computer Networks II
  - COP 3257 JAVA Experienced Programmers
  - COP 4020 Programming Languages
  - COP 4365 Software Systems Development
  - COP 4620 Compilers
  - COP 4656 Software Development for Mobile Devices
  - COP 4710 Database Design

- Hardware Electives:
  - CDA 4203/CDA 4203L Computer System Design & Lab
  - CDA 4213/CDA 4213L CMOS-VLSI Design & Lab
  - CDA 4253 FPGA Design and Analysis
  - CDA 4621 Control of Mobile Robots

- Theory Electives:
  - COT 4115 Advanced Discrete Structures with Cryptology
  - COT 4210 Automata Theory and Formal Languages
  - COT 4521 Computational Geometry
• Other Courses:
  o CIS 4900 Independent Study
  o CIS 4910 Computer Science Project
  o CIS 4915 Supervised Research
  o CIS 4940 Industry Internship

The Department website undergraduate section contains the most up to date list of Departmental upper-level technical electives. The prerequisite for most (but not all) Departmental upper-level technical electives is CDA 3201 Computer Logic and Design and COP 4530 Data Structures. Consult with the Department Undergraduate Advisor to learn more about available electives and which courses will and will not count towards the degree. Additional electives may be available with a special topics course number (typically, CIS 4930).

GPA REQUIREMENTS

Students must have and maintain a minimum 2.0 Math and Science GPA, 2.0 Engineering GPA, 2.0 Specialization GPA, 2.0 USF GPA, and 2.0 Overall GPA.

COURSE GRADE REQUIREMENT

Continuation in the major requires successful completion of CDA 3103 and COP 3514 with minimum grades of B, based on best attempts in each course. Grades of B- are insufficient. These requirements must be met with a maximum of two attempts allowed for each course.

GRADING REQUIREMENT

Unless otherwise stated, the minimum acceptable grade in all BSCS required math, science, and engineering courses is a C or higher (C- is insufficient). The minimum acceptable grade in specialization courses is a C-, except as stated in the major admission and continuation requirements.

RESIDENCY REQUIREMENT

Transfer students must complete a minimum number of approved specialization courses in the major at USF. 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. Basic engineering courses are not considered specialization courses. The University residency requirement must also be met.

A dual degree student must meet the requirements of each major and have a minimum of 18 approved specialization hours taken in the degree granting department beyond those specialization hours required for the first degree.

RESEARCH OPPORTUNITIES

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. Professors and graduate students serve as research partners and mentors as undergraduate research assistants participate in the scientific process and gain relevant experience.

There are a number of options to receive academic credit for a mentored research experience and to have the experience show on the official transcript. Students who wish to enroll in an undergraduate research course should consult with their academic advisor to understand how the credit will apply towards the degree requirements. If no credit is needed, students may be eligible to enroll in the 0-credit IDS 2912 or IDS 4914 courses. These courses will not impact degree credits or GPA but will show on an official transcript and document the experience.

INTERNSHIP OPPORTUNITIES

The College of Engineering and USF’s Career Services Cooperative Education (Co-Op) program provides services for students interested in experiential educational 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 first year in the College of Engineering and pursue actual internships during their sophomore, junior and senior years. See the Department Undergraduate Advisor for more information on earning academic credit for internships.
The Bachelor of Science in Computer Science degree is accredited by the Computing Accreditation Commission of ABET, [http://www.abet.org](http://www.abet.org).

ADVISING INFORMATION

Department Undergraduate Advisor: [http://www.usf.edu/engineering/cse/undergraduate/contacts.aspx](http://www.usf.edu/engineering/cse/undergraduate/contacts.aspx)

COMPUTER SCIENCE FACULTY


B.S. - CYBERSECURITY (EYB)
(CIP = 11.0103 (TRACK 1 OF 4))
TOTAL DEGREE HOURS: 120

http://www.usf.edu/engineering/undergraduate/majors.aspx

The Cybersecurity major focuses on technology, people, information, and processes to enable assured cyber operations in the context of adversaries. The program is built on a technical foundation of computing and information technology. Students in this program acquire a background in cybersecurity related to information, software, systems, users, and organizations including aspects of policy, human factors, risk management, ethics, and impact on society.

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, computer engineering, information technology, and cybersecurity through internationally recognized research and education, as well as technology transfer.
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 effective classroom practices, active learning styles of teaching, and opportunities for meaningful interactions between students and faculty.

Program Educational Objectives and Student Outcomes

The Department has established the following program educational objectives for the Cybersecurity graduates.

Objective 1: Our graduates will apply their knowledge and skills to succeed in their careers and/or obtain an advanced degree.

Objective 2: Our graduates will function ethically and responsibly, and will remain informed and involved as full participants in our profession and society.

Objective 3: Our graduates will creatively solve problems, communicate effectively, and successfully function in multi-disciplinary teams.

Objective 4: Our graduates will develop and apply principles and practices of cybersecurity to protect computing equipment, data, process, and people from adversaries and exposure.

The following are the Student Outcomes. Graduates of the program will have an ability to:
1. Analyze a complex computing problem and to apply principles of computing and other relevant disciplines to identify solutions.

2. Design, implement, and evaluate a computing-based solution to meet a given set of computing requirements in the context of the program's discipline.

3. Communicate effectively in a variety of professional contexts.

4. Recognize professional responsibilities and make informed judgments in computing practice based on legal and ethical principles.

5. Function effectively as a member or leader of a team engaged in activities appropriate to the program's discipline.

6. Apply security principles and practices to the environment, hardware, software, and human aspects of a system.

7. Analyze and evaluate systems with respect to maintaining operations in the presence of risks and threats.

Student Enrollment Data

Student enrollment data is posted on the Department website.

Entrance and Continuation Requirements for the Cybersecurity Major

Students in good standing who have fully met the below admission requirements may declare a major in Cybersecurity. Prior to being admitted to the major, a student may be permitted to take no more than two Departmental courses.

Minimum Admission Requirements for the Cybersecurity Major

1. Completion of with a minimum acceptable grade for each of the courses is C (grades of C- are insufficient).
   - MAD 2104 Discrete Mathematics
   - CGS 1540 Introduction to Databases for Information Technology
   - COP 2512 Programming Fundamentals for Information Technology
   - COP 2513 Object Oriented Programming for Information Technology

   with a minimum grade of C in each course (grades of C- are insufficient)

   All students must complete the equivalent of USF Discrete Mathematics (MAD 2104), Introduction to Databases for Information Technology (CGS 1540), Programming Fundamentals for Information Technology (COP 2512), and Object Oriented Programming for Information Technology (COP 2513) with minimum grades of C in each course (grades of C- are insufficient). The minimum overall average GPA in these four courses required for admission to the Department is between 2.0 and 3.5 for any given year. The minimum acceptable average GPA will be posted on the Department's website one year prior to the Fall Semester that the revised GPA is applicable. The computed GPA is based on the best attempts in these courses. These requirements must be met with a maximum of two attempts allowed for each course.

   2. A minimum overall GPA of 2.0
   3. A minimum USF GPA of 2.0

GPA and Grade Requirements

Unless otherwise stated, the minimum acceptable grade in all required math, science, and engineering courses is a C or higher (C- is insufficient). The minimum acceptable grade in state mandated prerequisite courses is a C or higher (C- is insufficient). The minimum acceptable grade in specialization courses is a C-, except as stated in the program admissions and continuation requirements. Student must have and maintain a minimum 2.0 Math and Science GPA, 2.0 Engineering GPA, 2.0 Specialization GPA, 2.0 USF GPA, and 2.0 Overall GPA.

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 and/or survey as a graduation requirement.
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 General Education 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.

Transfer students are also required to comply with the immunization, foreign language, and continuous enrollment policies of the university.

Students should complete the following prerequisite courses 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.

The minimum acceptable grade in state mandated prerequisite courses is a C or higher (C- is insufficient).

- PSY XXXX Any Psychology course
- STA X023 Introductory Statistics I or STA X122
- ECO X013 Principles of Economics (Macroeconomics)
- CGS XXXX Any Database course
- COP XXXX Any Computer Programming course
- MAC XXXX Any Pre-Calculus course
- PHY XXXX Any Physics course
- XXX XXXX Any Discrete Math course
- COP XXXX Any Object-Oriented Computer Programming course

**REQUIREMENTS FOR THE MAJOR IN CYBERSECURITY**

**REQUIRED SUPPORTING COURSES FOR THE MAJOR: 0 HOURS**

The following courses are prerequisite and supporting courses for this major. They are required for the major, but are not counted in the total hours for this major. The degree will not be awarded if these courses have not been taken by the end of the student’s final semester.

**TOTAL MAJOR HOURS: 105**

**MAJOR REQUIREMENTS FOR THE B.S. DEGREE:**

**MAJOR CORE (87 HOURS)**

**Math and Science (16 credit hours)**

- STA 2023 Introductory Statistics I
- MAC 1147 Pre-calculus Algebra and Trigonometry
- PHY 2020 Conceptual Physics
- MAD 2104 Discrete Mathematics
- General Education Natural Science Elective

**Breadth (6 credit hours)**

- PSY 2012 Introduction to Psychological Science
- ECO 2013 Economics Principles (Macroeconomics)
Basic Engineering (3 credit hours)
- EGN 3000 Foundations of Engineering
- EGN 3000L Foundations of Engineering Lab

Specialization (53 credit hours)
- CGS 1540 Introduction to Databases for Information Technology
- CGS 3303 Information Technology Concepts
- CIS 3213 Foundations of Cybersecurity
- CIS 3615 Secure Software Development (USF Sarasota-Manatee course)
- CEN 3722 Human Computer Interfaces for Information Technology
- COP 2512 Programming Fundamentals for Information Technology
- COP 2513 Object Oriented Programming for Information Technology
- COP 3515 Advanced Program Design for Information Technology
- CGS 3853 Web Systems for Information Technology
- CNT 4104 Computer Information Networks for Information Technology
- CNT 4104L Computer Information Networks Laboratory for Information Technology
- CNT 4403 Network Security and Firewalls for IT
- COP 4538 Data Structures and Algorithms for Information Technology
- COP 4703 Database Systems for Information Technology
- CIS 3363 IT Systems Security
- LIS 4414 Information Policy and Ethics (College of Arts & Sciences course)
- CIS 4935 Senior Project in Information Technology
- ISM 4323 Information Security and IT Risk Management (Muma College of Business course)

Composition and Technical Writing (9 credit hours)
- ENC 1101 Composition I
- ENC 1102 Composition II
- ENC 3246 Communication for Engineers

MAJOR ELECTIVES (18 HOURS)

College of Arts and Sciences – School of Information
- CIS 3360 Principles of Information Security
- CIS 3362 Cryptography and Information Security
- LIS 4779 Health Information Security
- In addition, special topics courses as relevant

College of Arts and Sciences – Department of Mathematics and Statistics
- MAD 4471 Introduction to Cryptography and Coding Theory
- In addition, special topics courses as relevant

Muma College of Business – Department of Information Systems Decision Sciences
- ISM 4041 Global Cyber Ethics
• ISM 4571 Cybersecurity Cases
  • In addition, special topics courses as relevant

**College of Education – Department of Teaching and Learning**

• EDG 3801 Cybersecurity and the Everyday Citizen
  • In addition, special topics courses as relevant

**College of Behavioral and Community Sciences – Department of Criminology**

• Special topics courses as relevant

**USFSM College of Business - Department of Information Technology**

• CIS 4203 Cyber Forensics and Investigations
• CIS 4204 Ethical Hacking
• CIS 4368 Database Security and Audits
• CIS 4369 Web Application Security
  • In addition, special topics courses as relevant

**College of Engineering - Department of Electrical Engineering**

• In addition, special topics courses as relevant

**College of Engineering – Department of Computer Science and Engineering**

• CIS 4361 Information Assurance and Security Management for IT
• CIS 4365 Computer Security Policies and Disaster Preparedness
• CNT 4403 Network Security and Firewalls

The Department [website undergraduate section](#) contains the most up-to-date list of Departmental Electives. These posted lists also describe the required pre-requisites for the electives. Additional electives may be available with a Special Topics course number (e.g., COP 4931). Consult with the Department Undergraduate Advisor to learn more about available electives. A maximum of nine (9) hours combined of COP 4900 Independent Study and CIS 4947 Industry Internship for Information Technology are allowed as Department Elective credit, with no more than 3 hours in any one given company for CIS 4947 credit.

**GPA REQUIREMENTS**

Students must have and maintain a minimum 2.0 Math and Science GPA, 2.0 Engineering GPA, 2.0 Specialization GPA, 2.0 USF GPA, and 2.0 Overall GPA.

**GRADING REQUIREMENT**

Unless otherwise stated, the minimum acceptable grade in all major required math, science, and engineering courses is a C or higher (C- is insufficient). The minimum acceptable grade in state mandated prerequisite courses is a C or higher (C- is insufficient). The minimum acceptable grade in specialization courses is a C-, expect as stated in the program admission and continuation requirements.

**RESIDENCY REQUIREMENT**

Transfer students must complete a minimum number of approved major core courses in the major at USF. The minimum number of USF major core credit hours required is established by the respective academic department. In no case will this be less than 18 hours. Basic engineering courses are not considered specialization courses. The University residency requirement must also be met.

A concurrent degree (dual degree) student must meet the requirements of each major and have a minimum of 18 approved specialization hours taken in the degree granting department beyond those specialization hours required for the first degree.
OTHER REQUIREMENTS

Other Requirements
Currently, a student pursuing the Cybersecurity major may not pursue a second major while simultaneously enrolled in the Cybersecurity undergraduate major.

RESEARCH OPPORTUNITIES

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. Professors and graduate students serve as research partners and mentors as undergraduate research assistants participate in the scientific process and gain relevant experience.

There are a number of options to receive academic credit for a mentored research experience and to have the experience show on the official transcript. Students who wish to enroll in an undergraduate research course should consult with their academic advisor to understand how the credit will apply towards the degree requirements. If no credit is needed, students may be eligible to enroll in the 0-credit IDS 2912 or IDS 4914 courses. These courses will not impact degree credits or GPA but will show on an official transcript and document the experience.

OTHER INFORMATION

ADVISING INFORMATION

Advising Information
Department Undergraduate Advisor: http://www.usf.edu/engineering/cse/undergraduate/contacts.aspx

CYBERSECURITY FACULTY


B.S.E.E. - ELECTRICAL ENGINEERING (EEL)
(CIP = 14.1001 - TRACK 1 OF 2)
TOTAL DEGREE HOURS: 128
http://www.usf.edu/engineering/undergraduate/majors.aspx

The Electrical Engineering major offers study in all areas fundamental to the analysis, design, and development of electrical devices and systems. The areas covered by the major include foundational topics such as circuits and electrical power, to applications such as Internet of Things, Smart Grid and Data Analytics. The major offers curriculum tracks that include: Bioelectrical Systems, Communication Systems, Energy, Power and Sustainability, Mechatronics, Robotics and Embedded Systems, Wireless Systems and Micro and Nano-scale Systems. Additional information on these areas may be found at: http://www.usf.edu/engineering/ee/documents/trackdescriptions.pdf. Well-equipped laboratories reinforce fundamental concepts, while providing real world hands-on exposure.

Mission Statement
The mission of the Electrical Engineering Department in the College of Engineering at the University of South Florida is to provide a high quality education in electrical engineering for our students and practicing professionals; create new knowledge and solve real world problems via innovative research, and disseminate this information for the benefit of society; and to engage in effective regional, national and international service and outreach.

Program Educational Objectives & Student Outcomes

Educational Objectives
The Electrical Engineering Department in the College of Engineering at the University of South Florida is committed to graduating electrical engineers who shall within a few years of graduation:
• Demonstrate a progression in technical competence and increasing responsibility in the practice of engineering, and the ability to contribute to the diversity of thought and creativity in the workplace.

• Engage in written and oral professional communication within and beyond the engineering community.

• Continue to develop professionally through life-long learning, advanced education, and other creative pursuits in science and technology.

Student Outcomes

1. an ability to identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics

2. an ability to apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors

3. an ability to communicate effectively with a range of audiences

4. an ability to recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts

5. an ability to function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives

6. an ability to develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions

7. an ability to acquire and apply new knowledge as needed, using appropriate learning strategies.

Please refer to the mission statement on the department website for additional information.

Student Enrollment Data

Student enrollment data can be found at the department’s website: https://www.usf.edu/engineering/ee/about-us/factsandtrends.aspx

Entrance and Continuation Requirements for the Electrical Engineering Department

College of Engineering students who have fully met the below admission requirements and are in good academic standing, may declare a major in Electrical Engineering. Prior to being admitted to a department, a student may be permitted to take no more than two departmental engineering courses. Upon admission to the department all students must meet with Dr. Ferekides, UG Program Coordinator, to discuss their pathway to graduation, and the department’s Academic Integrity policies.

Minimum Admission Requirement for the Electrical Engineering Department

• Completion of:
  o Calculus I (MAC 2311 or MAC 2281) and Calculus II (MAC 2312 or MAC 2282) and Calculus III (MAC 2313 or MAC 2283)
  o Calculus-based Physics I with Lab (PHY 2048 and PHY 2048L)
  o General Chemistry I with Lab (CHM 2045 and CHM 2045L) or (CHS 2440 and CHS 2440L)

• A minimum grade of C in each course and a 2.75 GPA based upon the best attempt in these courses for guaranteed admission to the department, OR a 2.5 GPA based upon the best attempt in these courses for a conditional admission to the department pending review of complete transcript.

• A minimum overall GPA of 2.0

• A minimum USF GPA of 2.0

Minimum Continuation Requirement for the Electrical Engineering Department

Continuation in the major requires successful completion of Differential Equations with a grade of B (not B-) or higher (best attempt).
GPA and Grade Requirement

Unless otherwise stated, the minimum acceptable grade in BSEE required math, science, engineering and specialization courses is a C or higher (C- is insufficient). Students must have and maintain a minimum 2.0 Math and Science GPA, 2.0 Engineering GPA, 2.0 Specialization GPA, 2.0 USF GPA, and 2.0 Overall GPA.

Departmental Policies

In addition to the College’s graduation requirement, the department has the following policies:

1. Students must consult with an academic advisor for the development of their individual academic study plan, and selection and approval of their Electrical Engineering Technical Electives.
2. Students must complete Exit interviews as a graduation requirement.

STATE MANDATED COMMON COURSE PREREQUISITES

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 General Education 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.

Transfer students are also required to comply with the immunization, foreign language, and continuous enrollment policies of the university.

Students should complete the following prerequisite courses 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 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.

Mathematics:

Courses at USF

- MAC 2281 Engineering Calculus I
- MAC 2282 Engineering Calculus II
- MAC 2283 Engineering Calculus III
- MAP 2302 Differential Equations

Courses at a Florida College System Institution

- MAC X311 or MAC X281
- MAC X312 or MAC X282
- MAC X313 or MAC X283
- MAP X302 or MAP X305

Natural Sciences:

Courses at USF

- CHM 2045/CHM 2045L General Chemistry I with Lab or CHS 2440/2440L General Chemistry for Engineers with Lab
- PHY 2048/PHY 2048L General Physics I - Calculus Based with Lab
- PHY 2049/PHY 2049L General Physics II - Calculus Based with Lab
Courses at a Florida College System Institution

- CHM X045/X045L or CHM X045C or CHS X440/X440L
- PHY X048/X048L or PHY X048C or PHY X043/X048L or PHY X041/X048L
- PHY X049/X049L or PHY X049C or PHY X044/X049L or PHY X042/X049L

TOTAL MAJOR HOURS: 116

MAJOR REQUIREMENTS FOR THE B.S.E.E. DEGREE:

MAJOR CORE (99 HOURS)

Math and Science (27 credit hours)

- MAC 2281 Engineering Calculus I or MAC 2311 Calculus I
- MAC 2282 Engineering Calculus II or MAC 2312 Calculus II
- MAC 2283 Engineering Calculus III or MAC 2313 Calculus III
- MAP 2302 Differential Equations or EGN 3433 Modeling and Analysis of Engineering Systems
- CHM 2045 General Chemistry I or CHS 2440 Chemistry for Engineers
- CHM 2045L General Chemistry I Laboratory or CHS 2440L Chemistry for Engineers Lab
- PHY 2048 General Physics I
- PHY 2048L General Physics I Laboratory
- EEL 3472C Electrical Engineering Science II - Electromagnetics or
  - PHY 2049 General Physics II and PHY 2049L General Physics II Laboratory
  - Note: EEL 3472C is required and will apply as a major elective if Physics II is transferred.

Basic Engineering (9 credit hours)

- EGN 3000 Foundations of Engineering
- EGN 3000L Foundations of Engineering Laboratory
- EGN 3443 Probability and Statistics for Engineers
- EGN 3615 Engineering Economics with Social and Global Implications

Major Core (40 credit hours)

- Required Core (28 credit hours)
  - EEE 3394 Electrical Engineering Science I - Electronic Materials
  - EEL 2161 Programming with C
  - EEL 3115L Laboratory I
  - EEL 3163C Computer Tool Laboratory
  - EEL 3705 Fundamentals of Digital Circuits
  - EEL 3705L Fundamentals of Digital Circuits Laboratory
  - EEL 4102 Signals and Systems
  - EGN 3373 Introduction to Electrical Systems I
  - EGN 3374 Introduction to Electrical Systems II
  - EGN 3420 Engineering Analysis
• EGS 2070 Professional Formation of Engineers 1
  • EGS 3071 Professional Formation of Engineers 2
  • EGS 3072 Professional Formation of Engineers 3

  Elective Core (12 credit hours)
  • Students must choose four (4) out of the six (6) courses listed below. Each course serves as a "gateway" to the Technical Tracks (see technical tracks and technical electives lists below).
    ▪ EEE 3302 Electronics I (Gateway Course for Technical Track #1)
    ▪ EEL 4512C Introduction to Communication Systems (Gateway Course for Technical Track #2)
    ▪ EGN 3375 Electromechanical systems (Gateway Course for Technical Track #3)
    ▪ EEL 4657 Linear Control Systems (Gateway Course for Technical Track #4)
    ▪ EEE 4351C Semiconductor Devices (Gateway Course for Technical Track #5)
    ▪ EEL 4423C Wireless Circuits & Systems Design Laboratory (Gateway Course for Technical Track #6)

Major Specialization (14 credit hours)

Students must choose a minimum of two (2) technical tracks as areas of specialization and select at least two (2) 3-credit hour courses and one (1) 1-credit hour laboratory from courses listed under each track, except Track 6 in which the lab component is included in the Gateway course. Courses cannot be double counted across tracks.

See Track and Technical Electives lists below; graduate-level courses are also available under each track area.

• Track 1: Bioelectrical Systems
  • EEE 4260C Bioelectricity
  • EEE 4271 Bioelectronics
  • EEE 4410 System on a Chip
  • EEE 4506 Biomedical Image Processing
  • EEL 3116L Laboratory II

• Track 2: Communication Systems
  • EEL 4595 Mobile and Personal Communication
  • EEL 4727C Digital Signal Processing with Field Programmable Gate Arrays
  • EEL 4756 Digital Signal Processing
  • EEL 4936 Wireless Communications Lab (Special Electrical Engineering Topics 1)
  • EEL 4743L Microprocessor Lab
  • EEL 4423C Wireless Circuits & Systems Design Lab

• Track 3: Energy, Power, and Sustainability
  • EEL 4212 Energy Delivery Systems
  • EEL 4214 Electric (Utility) Distribution Systems
  • EEL 4224 Electric Machines and Drives
  • EEL 4241 Power Electronics
  • EEL 4251 Power System Analysis
  • EEL 4252 Power Systems II
  • EEL 4271 Power System Protection
Capstone Design Sequence (6 credit hours)
- EEL 4906 EE Design I
- EEL 4914 EE Design II

Technical Writing (3 credit hours)
- ENC 3246 Communication for Engineers

MAJOR ELECTIVES (17 HOURS)

Select 17 credit hours of course and laboratory work from any of the Electrical Engineering upper-level (3000- or 4000-level) courses listed in the Undergraduate Catalog. Students may choose more coursework under the two specialization tracks, or choose breadth over depth by choosing courses in other Electrical Engineering areas. One 3-credit hour course may be taken outside of the Electrical Engineering department, with prior department approval.

Entrance Requirements for the Electrical Engineering Major

College of Engineering students who have fully met the below admission requirements and are in good academic standing, may declare a major in Electrical Engineering. Prior to being admitted to a department, a student may be permitted to take no more than two departmental engineering courses. Upon admission to the department all students must meet with Dr. Ferekides, UG Program Coordinator, to discuss their pathway to graduation, and the department’s Academic Integrity policies.
Minimum Admission Requirements for the Electrical Engineering Major

- Completion of:
  - Calculus I (MAC 2311 or MAC 2281) and Calculus II (MAC 2312 or MAC 2282) and Calculus III (MAC 2313 or MAC 2283)
  - Calculus-based Physics I with Lab (PHY 2048 and PHY 2048L)
  - General Chemistry I with Lab (CHM 2045 and CHM 2045L) or (CHS 2440 and CHS 2440L)
- A minimum grade of C in each course and a 2.75 GPA based upon the best attempt in these courses for guaranteed admission to the department, OR a 2.5 GPA based upon the best attempt in these courses for a conditional admission to the department pending review of complete transcript.
- A minimum overall GPA of 2.0
- A minimum USF GPA of 2.0

Minimum Continuation Requirements for the Electrical Engineering Major

Continuation in the major requires successful completion of Differential Equations with a grade of B (not B-) or higher (best attempt).

Departmental Policies

In addition to the College’s graduation requirement, the department has the following policies:

1. Students must consult with an academic advisor/mentor for the development of their individual academic study plan, and selection and approval of their Electrical Engineering Technical Electives. To schedule an appointment send an email to: ENG-EEAdvising@usf.edu
2. Students must complete Exit interviews as a graduation requirement.

GPA REQUIREMENTS

Students must have and maintain a minimum 2.0 Math and Science GPA, 2.0 Engineering GPA, 2.0 Specialization GPA, 2.0 USF GPA, and 2.0 Overall GPA.

COURSE GRADE REQUIREMENT

Continuation in the major requires successful completion of Differential Equations with grades of B (not B-) or higher (best attempt).

GRADING REQUIREMENT

Unless otherwise stated, the minimum acceptable grade in BSEE required math, science, engineering and specialization courses is a C or higher (C- is insufficient).

RESIDENCY REQUIREMENT

Transfer students must complete a minimum number of approved specialization courses in the major at USF. 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. Basic engineering courses are not considered specialization courses. The University residency requirement must also be met.

A dual degree student must meet the requirements of each major and have a minimum of 18 approved specialization hours taken in the degree granting department beyond those specialization hours required for the first degree.

RESEARCH OPPORTUNITIES

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.
There are a number of options to receive academic credit for a mentored research experience and to have the experience show on the official transcript. Students who wish to enroll in an undergraduate research course should consult with their academic advisor to understand how the credit will apply towards the degree requirements. If no credit is needed, students may be eligible to enroll in the 0-credit IDS 2912, IDS 4914 or IDH 4910 courses. These courses will not impact degree credits or GPA but will show on an official transcript and document the experience.

**INTERNSHIP OPPORTUNITIES**

The College of Engineering and USF’s Career Services Cooperative Education (Co-Op) program provides services for students interested in experiential educational 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 first year in the engineering college and pursue actual internships during their sophomore, junior, and senior years.

Students seeking to secure an internship, are strongly encouraged to sign up on Handshake (https://usf.joinhandshake.com/login) and complete their profile. Internships cannot be used toward course credit. Students who wish for this activity to appear on their official transcripts, they can sign up for a 0-credit internship course (EGN 3940 – Professional Engineering Internship).

**ACCELERATED B.S/M.S. PROGRAM**

Students majoring in Electrical Engineering have the option to pursue one of the following accelerated programs:

- B.S.E.E. in Electrical Engineering and M.S.E.E in Electrical Engineering

**ACCREDITATION INFORMATION**

The Bachelor of Science in Electrical Engineering degree is accredited by the Engineering Accreditation Commission of ABET, [http://www.abet.org](http://www.abet.org).

**ADVISING INFORMATION**

All incoming freshman and transfer students must meet with one of the college advisors in the Engineering Student Services (ESS).

**Engineering Student Services**

Office: Engineering Building III (ENC) 1302  
Phone: (813) 974-2684  
Email: eng-advisingmail@usf.edu  
[Website](https://usf.joinhandshake.com/login)

Students accepted into the EE Department should meet with the EE Department Undergraduate Program Director, with any questions.

Dr. Ferekides, UG, Program Director, Engineering Building II (ENB) 256, (813) 974-2369  
Ms. Cherie Dilley, Academic Services Administrator, Engineering Building II (ENB) 379E, (813) 974-2659

Email: ENG-EEAdvising@usf.edu

**ELECTRICAL ENGINEERING FACULTY**

Industrial engineering (IE) is a field of study intended for individuals who are interested in formulating mathematical, statistical, and computer simulation models of complex systems in manufacturing, logistics, information, healthcare, transportation, financial, utilities, entertainment, and service. IEs connect big data sets and models to make engineering decisions for improving system performance and developing public policies. Unlike traditional disciplines in engineering, the scope of the industrial engineering field is very broad.

Mission Statement
The mission of the IMSE Department is to:

- Assure student success through a high quality education which integrates the latest research and practices of the field;
- Pursue excellence in interdisciplinary research and innovation;
- Engage with the profession and the community.

Please see the mission statement on the department website for additional information.

Program Educational Objectives and Student Outcomes

Program Educational Objectives

Our graduates are expected to:

1. Have applied industrial engineering effectively and creatively
2. Have demonstrated effective communication and teamwork
3. Have engaged in community service and leadership
4. Have continued to pursue life-long learning

Student Outcomes

The graduates of the B.S. degree program in Industrial Engineering at USF will demonstrate that they have:

1. an ability to identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics.
2. an ability to apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social environmental, and economic factors.
3. an ability to communicate effectively with a range of audiences.
4. an ability to recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts.
5. an ability to function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives.
6. an ability to develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions.
7. an ability to acquire and apply new knowledge as needed, using appropriate learning strategies.

Student Enrollment Data

Student enrollment data is posted on the Department website.
Entrance Requirements for the Industrial Engineering Department

College of Engineering students who have fully met the below admission requirements and are in good academic standing, may declare a major in Industrial Engineering. Prior to being admitted to a department, a student may be permitted to take no more than two departmental Engineering courses.

Preferred Admission Requirements for the Industrial Engineering Department

1. Completion of:
   - Calculus I (MAC 2311 or MAC 2281) and Calculus II (MAC 2312 or MAC 2282) and Calculus III (MAC 2313 or MAC 2283)
   - Calculus-based Physics I with Lab (PHY 2048 and PHY 2048L)
   - Calculus-based Physics II with Lab (PHY 2049 and PHY 2049L)
   - General Chemistry I with Lab (CHM 2045 and CHM 2045L) or (CHS 2440 and CHS 2440L)

   A minimum grade of C in each course and a 3.0 GPA based upon the best attempt in these courses.

2. A minimum overall GPA of 2.5

3. A minimum USF GPA of 2.5

Students who meet the minimum USF GPA and overall GPA requirements, but not the preferred qualifications may submit a Conditional Admission Application to the IMSE Undergraduate Committee for consideration. Fall applications are due by October 1st. Spring applications are due by March 1st.

Minimum Continuation Requirement for the Industrial Engineering Department

Continuation in the major requires successful completion of EGN 3443 Probability and Statistics for Engineers with a grade of B (not B-) or higher (best attempt).

GPA and Grade Requirement

Unless otherwise stated, the minimum acceptable grade in all BSIE required math, science, engineering, and specialization courses is a C or higher (C- is insufficient). Students must have and maintain a minimum 2.0 Math and Science GPA, 2.0 Engineering GPA, 2.0 Specialization GPA, 2.0 USF GPA, and 2.0 Overall GPA.

STATE MANDATED COMMON COURSE PREREQUISITES

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 General Education 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.

Transfer students are also required to comply with the immunization, foreign language, and continuous enrollment policies of the university.

Students should complete the following prerequisite courses 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 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.

Mathematics:

Courses at USF

- MAC 2281 Engineering Calculus I
- MAC 2282 Engineering Calculus II
- MAC 2283 Engineering Calculus III
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- MAP 2302 Differential Equations

Courses at a Florida College System Institution
- MAC X311 or MAC X281
- MAC X312 or MAC X282
- MAC X313 or MAC X283
- MAP X302 or MAP X305

Natural Sciences:

Courses at USF
- CHM 2045/CHM 2045L General Chemistry I with Lab or CHS 2440/2440L General Chemistry for Engineers with Lab
- PHY 2048/PHY 2048L General Physics I - Calculus Based with Lab
- PHY 2049/PHY 2049L General Physics II - Calculus Based with Lab

Courses at a Florida College System Institution
- CHM X045/X045L or CHM X045C or CHS X440/X440L
- PHY X048/X048L or PHY X048C or PHY X043/X048L
- PHY X049/X049L or PHY X049C or PHY X044/X049L

REQUIREMENTS FOR THE MAJOR IN INDUSTRIAL ENGINEERING

TOTAL MAJOR HOURS: 113

MAJOR REQUIREMENTS FOR THE B.S.I.E. DEGREE:

MAJOR CORE (104 HOURS)

The BSIE Senior Design Project is a full academic year experience. Therefore EIN 4890 (Senior Design Project I) and EIN 4891 (Senior Design Project II) must be taken sequentially and completed within the same academic year.

Math and Science (27 credit hours)
- MAC 2281 Engineering Calculus I or MAC 2311 Calculus I
- MAC 2282 Engineering Calculus II or MAC 2312 Calculus II
- MAC 2283 Engineering Calculus III or MAC 2313 Calculus III
- MAP 2302 Differential Equations or EGN 3433 Modeling and Analysis of Engineering Systems
- CHS 2440 General Chemistry for Engineers or CHM 2045 General Chemistry I
- CHS 2440L General Chemistry for Engineers Laboratory or CHM 2045L General Chemistry I Lab
- PHY 2048 General Physics I
- PHY 2048L General Physics I Laboratory
- PHY 2049 General Physics II
- PHY 2049L General Physics II Laboratory

Basic Engineering (26 credit hours)
- EGN 3000 Foundations of Engineering
- EGN 3000L Foundations of Engineering Lab
- EGN 3443 Probability & Statistics for Engineering
### EGN 4450 Introduction to Linear Systems
- EGN 1113 Introduction to Design Graphics
- EGN 3311 Statics
- EGN 3373 Introduction to Electrical Systems I
- EGN 3365 Materials Engineering I
- EGN 3343 Thermodynamics I
- EGN 3615 Engineering Economics with Social and Global Implications

### Specialization (48 credit hours)
- ESI 4007 Engineering Programming
- EIN 4312C Work Analysis
- EIN 4621 Manufacturing Processes
- ESI 4312 Deterministic O.R.
- EIN 4333 Production Control
- ESI 4221 Statistical Quality Control
- ESI 4313 Probabilistic O.R.
- ESI 4620 Design of Industrial Information Systems
- ESI 4606 Engineering Analytics I
- EIN 4890 Industrial Engineering Senior Design Project I
- ESI 4244 Design of Experiments
- ESI 4523 Systems Simulation
- EIN 4243C Human Factors
- EIN 4601C Automation and Robotics
- EIN 4891 Industrial Engineering Senior Design Project II
- ESI 4607 Engineering Analytics II

### Technical Writing (3 credit hours)
- ENC 3246 Communication for Engineers

### MAJOR ELECTIVES (9 HOURS)

Nine (9) credit hours of Departmental Upper-Level Electives (Industrial Engineering Technical Elective)
- EIN 4142 Project Management
- EIN 4172 ISO 9000/14000
- EIN 4173 Quality Systems Management
- EIN 4180 Principles of Engineering Management
- EIN 4200 Creativity in Technology
- EIN 4213 Engineering Systems Safety
- EIN 4214 Occupational Safety Engineering
- EIN 4385 Management of Technical Change
- EIN 4453 Advanced Lean Six Sigma
Entrance Requirements for the Industrial Engineering Department

College of Engineering students who have fully met the preferred admission requirements below and are in good academic standing, may declare a major in Industrial Engineering. Prior to being admitted to a department, a student may be permitted to take no more than two departmental Engineering courses.

Preferred Admission Requirements for the Industrial Engineering Department

1. Completion of:
   - Calculus I (MAC 2311 or MAC 2281) and Calculus II (MAC 2312 or MAC 2282) and Calculus III (MAC 2313 or MAC 2283)
   - Calculus-based Physics I with Lab (PHY 2048 and PHY 2048L)
   - Calculus-based Physics II with Lab (PHY 2049 and PHY 2049L)
   - General Chemistry I with Lab (CHM 2045 and CHM 2045L) or (CHS 2440 and 2440L)

A minimum grade of C in each course and a 3.0 GPA based upon the best attempt in these courses.

2. A minimum overall GPA of 2.5

3. A minimum USF GPA of 2.5

Students who meet the minimum USF GPA and overall GPA requirements, but not the preferred qualifications may submit a Conditional Admission Application to the IMSE Undergraduate Committee for consideration. Fall applications are due by October 1st. Spring applications are due by March 1st.

Minimum Continuation Requirement for the Industrial Engineering Department

Continuation in the major requires successful completion of EGN 3443 Probability and Statistics for Engineers with a grade of B (not B-) or higher (best attempt).

GPA REQUIREMENTS

Students must have and maintain a minimum 2.0 Math and Science GPA, 2.0 Engineering GPA, 2.0 Specialization GPA, 2.0 USF GPA, and 2.0 Overall GPA.

GRADING REQUIREMENT

The minimum acceptable grade in all BSIE required math, science, engineering, and specialization courses is a C or higher (C- is insufficient).

Major Course Grade Requirement

Continuation in the major requires successful completion of EGN 3443 Probability and Statistics for Engineers with a grade of B (not B-) or higher (best attempt).

RESIDENCY REQUIREMENT

Transfer students must complete a minimum number of approved specialization courses in the major at USF. 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. Basic engineering courses are not considered specialization courses. The University residency requirement must also be met.
A dual degree student must meet the requirements of each major and have a minimum of 18 approved specialization hours taken in the degree granting department beyond those specialization hours required for the first degree.

OTHER REQUIREMENTS

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.

RESEARCH OPPORTUNITIES

The Research Experiences for Undergraduate (REU) 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. Contact Dr. Grisselle Centeno at gcenteno@usf.edu for further information on REU opportunities in Industrial Engineering.

INTERNSHIP OPPORTUNITIES

The College of Engineering and USF’s Career Services Cooperative Education (Co-Op) program provides services for students interested in experiential educational 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 first year in the engineering college and pursue actual internships during their sophomore, junior, and senior years. The IMSE department strongly encourages all BSIE students to pursue internship opportunities and provides continual information to students as new opportunities become available.

ACCELERATED B.S/M.S. PROGRAM

Students majoring in Industrial Engineering have the option to pursue one of the following accelerated programs:

- B.S.I.E. in Industrial Engineering and M.S.B.E. in Biomedical Engineering
- B.S.I.E. in Industrial Engineering and M.S.E.M. in Engineering Management

ACCREDITATION INFORMATION

The Bachelor of Science in Industrial Engineering degree is accredited by the Engineering Accreditation Commission of ABET, http://www.abet.org.

ADVISING INFORMATION

Students who wish to declare Industrial Engineering as their major must apply to be admitted into the department. A department application and an IE flowchart with courses completed must be obtained from Engineering Student Services in Engineering Building III (ENC) 1302 prior to an initial advising appointment request in the department. This should be done when the four core prerequisites of EGN 1113 Introduction to Engineering Graphics, EGN 3443 Probability and Statistics for Engineers, EGN 4450 Linear Systems, and EGN 3615 Engineering Economics with Social and Global Implications have been satisfactorily completed, and the minimum entrance requirements are met. The first departmental advising session will be scheduled with the Undergraduate Director, Dr. Kingsley Reeves. Subsequently, the student will be assigned to an IE faculty as their permanent advisor for the remainder of their semesters until completion of their degree.


INDUSTRIAL ENGINEERING FACULTY

The Information Technology program focuses on programming, databases, networking, human-computer interaction, web systems, and cybersecurity to meet the technology requirements of business, government, healthcare, education, and other organizations. Students in this program acquire the right combination of fundamental knowledge and practical expertise to solve computing technology problems and meet user needs.

**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, computer engineering, information technology, and cybersecurity through internationally recognized research and education, as well as technology transfer.

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 effective practices, active learning styles of teaching, and opportunities for meaningful interactions between students and faculty.

**Program Educational Objectives and Student Outcomes**

The Department has established the following program educational objectives for the Computer Engineering graduates.

**Objective 1:** Our graduates will apply their knowledge and skills to succeed in their careers and/or obtain an advanced degree.

**Objective 2:** Our graduates will function ethically and responsibly, and will remain informed and involved as full participants in our profession and society.

**Objective 3:** Our graduates will creatively solve problems, communicate effectively, and successfully function in multi-disciplinary teams.

**Objective 4:** Our graduates will apply principles and practices of information technology to identify, implement, and maintain cost-effective technologies and apply fundamental computing knowledge to solve information technology problem.

The following are the Student Outcomes. Graduates of the program will have an ability to:

1. Analyze a complex computing problem and to apply principles of computing and other relevant disciplines to identify solutions.

2. Design, implement, and evaluate a computing-based solution to meet a given set of computing requirements in the context of the program's discipline.

3. Communicate effectively in a variety of professional contexts.

4. Recognize professional responsibilities and make informed judgments in computing practice based on legal and ethical principles.

5. Function effectively as a member or leader of a team engaged in activities appropriate to the program's discipline.

6. Identify and analyze user needs and to take them into account in the selection, creation, integration, evaluation, and administration of computing-based systems. [IT]
Entrance and Continuation Requirements for the Information Technology Major Program

Students in good standing who have fully met the below admission requirements may declare a major in Information Technology. Prior to being admitted to a program, a student may be permitted to take no more than two Departmental courses.

Minimum Admission Requirements for the Information Technology Major

1. Completion of the following courses with a minimum grade of C in each course (grades of C- are insufficient):
   - MAD 2104 Discrete Mathematics
   - CGS 1540 Introduction to Databases for Information Technology
   - COP 2512 Programming Fundamentals for Information Technology
   - COP 2513 Object Oriented Programming for Information Technology

All students must complete the equivalent of USF Discrete Mathematics (MAD 2104), Introduction to Databases for Information Technology (CGS 1540), Programming Fundamentals for IT (COP 2512), and Object Oriented Programming for IT (COP 2513) with minimum grades of C in each course (grades of C- are insufficient). The minimum overall average GPA in these four courses required for admission to the department is between 2.0 and 3.5 for any given year. The minimum acceptable average GPA will be posted on the department’s website one year prior to the Fall semester that the revised GPA is applicable. The computed GPA is based on the best attempts in these courses. These requirements must be met with a maximum of two attempts allowed for each course. A minimum overall GPA of 2.0 and a minimum USF GPA of 2.0.

GPA and Grade Requirements

Unless otherwise stated, the minimum acceptable grade in all BSIT required math, science, and engineering courses is a C or higher (C- is insufficient). The minimum acceptable grade in state mandated prerequisite courses is a C or higher (C- is insufficient). The minimum acceptable grade in specialization courses is a C-, except as stated in the major admissions and continuation requirements. Students must have and maintain a minimum 2.0 Math and Science GPA, 2.0 Engineering GPA, 2.0 Specialization GPA, 2.0 USF GPA, and 2.0 Overall GPA.

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 and/or survey as a graduation requirement.

STATE MANDATED COMMON COURSE PREREQUISITES

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 General Education 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.

Transfer students are also required to comply with the immunization, foreign language, and continuous enrollment policies of the university.

Students should complete the following prerequisite courses 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.

The minimum acceptable grade in state mandated prerequisite courses is a C or higher (C- is insufficient).

- PSY XXXX Any Psychology course
- STA X023 Introductory Statistics I or STA X122
- ECO X013 Principles of Economics (Macroeconomics)
- CGS XXXX Any Database course
REQUIREMENTS FOR THE MAJOR IN INFORMATION TECHNOLOGY

TOTAL MAJOR HOURS: 105

MAJOR REQUIREMENTS FOR THE B.S.I.T. DEGREE:

MAJOR CORE (87 HOURS)

Math and Science (16 credit hours)
- STA 2023 Introductory Statistics I
- MAC 1147 Precalculus Algebra and Trigonometry
- MAD 2104 Discrete Mathematics
- PHY 2020 Conceptual Physics
- Gen Ed Natural Science Elective

Breadth (9 credit hours)
- PSY 2012 Introduction to Psychological Science
- ECO 2013 Economics Principles (Macroeconomics)
- INR 3033 International Political Cultures

Basic Engineering (3 credit hour)
- EGN 3000 Foundations of Engineering
- EGN 3000L Foundations of Engineering Lab

Specialization (50 credit hours)
- CEN 3722 Human Computer Interfaces for Information Technology
- CGS 1540 Introduction to Databases for Information Technology
- CGS 3303 Information Technology Concepts
- CGS 3853 Web Systems for Information Technology
- CIS 3213 Foundations of Cyber Security
- CIS 3433 System Architecture and Integration for Information Technology
- CIS 4083 Cloud Computing for Information Technology
- CIS 4253 Ethics for Information Technology
- CIS 4935 Senior Project in Information Technology
- CNT 4104 Computer Information Networks for Information Technology
- CNT 4104L Computer Information Networks Laboratory for Information Technology
- CNT 4603 System Administration and Maintenance for Information Technology
- COP 2512 Programming Fundamentals for Information Technology
Composition and Technical Writing (9 credit hours)

- ENC 1101 Composition I
- ENC 1102 Composition II
- ENC 3246 Communication for Engineers

MAJOR ELECTIVES (18 HOURS)

Students choose 18 credit hours of approved IT departmental electives from the following list:

- CEN 4360 Mobile Applications Development for IT
- CGS 3845 Electronic Commerce
- CIS 4200 Penetration Testing for IT
- CIS 4361 Information Assurance and Security Management for IT
- CIS 4412 Resource Management for IT
- CIS 4947 Industry Internship for IT
- CNT 4403 Network Security and Firewalls
- COP 3353 User-level Introduction to Linux for IT
- COP 4564 Application Maintenance and Debugging for IT
- COP 4883 Advanced Java Programming for Information Technology
- CTS 4337 Linux Workstations System Administration for IT
- CIS 4900 Independent Study

The Department website undergraduate section contains the most up-to-date list of Departmental Electives. These posted lists also describe the required pre-requisites for the electives. Additional electives may be available with a Special Topics course number (e.g., COP 4931). Consult with the Department Undergraduate Advisor to learn more about available electives. A maximum of nine (9) hours combined of COP 4900 Independent Study and CIS 4947 Industry Internship for Information Technology are allowed as Department credit, with no more than 3 hours in any one given company for CIS 4947 credit.

GPA REQUIREMENTS

Students must have and maintain a minimum 2.0 Math and Science GPA, 2.0 Engineering GPA, 2.0 Specialization GPA, 2.0 USF GPA, and 2.0 Overall GPA.

GRADING REQUIREMENT

Unless otherwise stated, the minimum acceptable grade in all BSIT required math, science, and engineering courses is a C or higher (C- is insufficient). The minimum acceptable grade in state mandated prerequisite courses is a C or higher (C- is insufficient). The minimum acceptable grade in a specialization course is a C-, expect as stated in the major admission and continuation requirements.

RESIDENCY REQUIREMENT

Transfer students must complete a minimum number of approved major core courses in the major at USF. The minimum number of USF major core credit hours required is established by the respective academic department. In no case will this be less than 18 hours. Basic engineering courses are not considered specialization courses. The University residency requirement must also be met.
A concurrent degree (dual degree) student must meet the requirements of each major and have a minimum of 18 approved specialization hours taken in the degree granting department beyond those specialization hours required for the first degree.

RESEARCH OPPORTUNITIES

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. Professors and graduate students serve as research partners and mentors as undergraduate research assistants participate in the scientific process and gain relevant experience.

There are a number of options to receive academic credit for a mentored research experience and to have the experience show on the official transcript. Students who wish to enroll in an undergraduate research course should consult with their academic advisor to understand how the credit will apply towards the degree requirements. If no credit is needed, students may be eligible to enroll in the 0-credit IDS 2912 or IDS 4914 courses. These courses will not impact degree credits or GPA but will show on an official transcript and document the experience.

INTERNERSHIP OPPORTUNITIES

The College of Engineering and USF’s Career Services Cooperative Education (Co-Op) program provides services for students interested in experiential educational 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 first year in the engineering college and pursue actual internships during their sophomore, junior, and senior years. See the Department Undergraduate Advisor for more information on earning academic credit for internships.

ADVISING INFORMATION


INFORMATION TECHNOLOGY FACULTY


B.S.M.E. - MECHANICAL ENGINEERING (EME)

(CIP = 14.1901)
TOTAL DEGREE HOURS: 128

http://www.usf.edu/engineering/undergraduate/majors.aspx

Students pursuing the Bachelor of Science in Mechanical Engineering take coursework in thermodynamics, heat transfer, instrumentation, measurements, computer-aided design, solid and fluid mechanics, dynamics, machine analysis and design, mechanical design, manufacturing processes, vibrations and controls. This is supplemented by elective coursework in such areas as sustainability, internal combustion engines, refrigeration and air conditioning, mechanical design, robotics, propulsion, 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 major 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; 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 Department of Mechanical Engineering in the College of Engineering at the University of South Florida is to provide a quality 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 publications, conferences and continuing education; to advance the profession through service within the associated societies, and to promote activities which serve global development.

Program Educational Objectives and Student Outcomes

Program Educational Objectives
Our Graduates, within a few years after graduation, will successfully:

A. Apply concepts of science, mathematics, computation, and mechanical engineering, including design theory, experimental techniques and manufacturing.

B. Pursue a productive career using strong critical thinking, innovation, and problem solving skills.

C. Demonstrate professional growth and leadership by using effective communication skills and participating in multi-disciplinary collaborations.

D. Engage in life-long learning and pursue continued career development with professional and ethical responsibility.

Student Outcomes
The graduates of the B.S. degree program in Mechanical Engineering at USF will demonstrate that they have:

1. an ability to identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics.

2. an ability to apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors.

3. an ability to communicate effectively with a range of audiences.

4. an ability to recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts.

5. an ability to function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives.

6. an ability to develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions.

7. an ability to acquire and apply new knowledge as needed, using appropriate learning strategies.

8. The curriculum must require students to apply principles of engineering, basic science, and mathematics (including multivariate calculus and differential equations); to model, analyze, design, and realize physical systems, components or processes; and prepare students to work professionally in either thermal or mechanical systems while requiring topics in each area.

Student Enrollment Data
Student enrollment data is posted on the Department website.

Entrance and Continuation Requirements for the Mechanical Engineering Major
College of Engineering students who have fully met the below admission requirements and are in good academic standing, may declare a major in Mechanical Engineering. Prior to being admitted to a department, a student may be permitted to take no more than two departmental engineering courses.

Minimum Admission Requirements for Department of Mechanical Engineering
1. Completion of the following courses with a cumulative 3.0 GPA based on best attempt and a minimum grade of C in each course:
   o Calculus I (MAC 2311 or MAC 2281)
COLLEGE OF ENGINEERING

UNIVERSITY OF SOUTH FLORIDA 2019-20 UNDERGRADUATE CATALOG

- Calculus II (MAC 2312 or MAC 2282)
- Calculus III (MAC 2313 or MAC 2283)
- Calculus-based Physics I with Lab (PHY 2048 and PHY 2048L)
- Calculus-based Physics II with Lab (PHY 2049 and PHY 2049L)
- General Chemistry I with Lab (CHM 2045 and CHM 2045L) or (CHS 2440 and CHS 2440L)

2. A minimum overall GPA of 2.5
3. A minimum USF GPA of 2.5

Minimum Continuation Requirements for Department of Mechanical Engineering

Completion of EML 3500 Mechanics of Solids and EGN 3343 Thermodynamics I with a minimum grade of C in each course (C- is insufficient).

GPA and Grading Requirement

The minimum acceptable grade in all BSME required math and science courses is a C or higher (C- is insufficient). The minimum acceptable grade in engineering and specialization courses which are prerequisites to other degree required courses is a C-, excepted as stated in the Department Continuation Requirements. The passing grade for terminal engineering and specialization courses is a C-. Students must have and maintain a minimum 2.0 Math and Science GPA, 2.0 Engineering GPA, 2.0 Specialization GPA, 2.0 USF GPA, and 2.0 Overall GPA.

STATE MANDATED COMMON COURSE PREREQUISITES

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 General Education 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.

Transfer students are also required to comply with the immunization, foreign language, and continuous enrollment policies of the university.

Students should complete the following prerequisite courses 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 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.

Mathematics:

Courses at USF
- MAC 2281 Engineering Calculus I
- MAC 2282 Engineering Calculus II
- MAC 2283 Engineering Calculus III
- MAP 2302 Differential Equations

Courses at a Florida College System Institution
- MAC X311 or MAC X281
- MAC X312 or MAC X282
- MAC X313 or MAC X283
- MAP X302 or MAP X305
Natural Sciences:

Courses at USF
- CHM 2045/CHM 2045L General Chemistry I with Lab
- CHS 2440/2440L General Chemistry for Engineers with Lab
- PHY 2048/PHY 2048L General Physics I - Calculus Based with Lab
- PHY 2049/PHY 2049L General Physics II - Calculus Based with Lab

Courses at a Florida College System Institution
- CHM X045/X045L or CHM X045C
- CHS X440/X440L
- PHY X048/X048L or PHY X048C or PHY X043/X048L
- PHY X049/X049L or PHY X049C or PHY X044/X049L

REQUIREMENTS FOR THE MAJOR IN MECHANICAL ENGINEERING

TOTAL MAJOR HOURS: 116

MAJOR REQUIREMENTS FOR THE B.S.M.E. DEGREE:

MAJOR CORE (101 HOURS)

Math and Science (27 credit hours)
- MAC 2281 Engineering Calculus I or MAC 2311 Calculus I
- MAC 2282 Engineering Calculus II or MAC 2312 Calculus II
- MAC 2283 Engineering Calculus III or MAC 2313 Calculus III
- MAP 2302 Differential Equations
- CHS 2440 General Chemistry for Engineers or CHM 2045 General Chemistry I
- CHS 2440L General Chemistry for Engineers Laboratory or CHM 2045 General Chemistry I Laboratory
- PHY 2048 General Physics I
- PHY 2048L General Physics I Laboratory
- PHY 2049 General Physics II
- PHY 2049L General Physics II Laboratory

Basic Engineering (24 credit hours)
- EGN 3000 Foundations of Engineering
- EGN 3000L Foundations of Engineering Laboratory
- EGN 3311 Statics
- EGN 3321 Dynamics
- EGN 3615 Engineering Economics with Social and Global Implications
- EGN 3365 Materials Engineering I
- EGN 3373 Introduction to Electrical Systems I
- EGN 3343 Thermodynamics I
- EGN 3443 Probability & Statistics for Engineers
Specialization (47 credit hours)

- EML 3035 Programming Concepts for Mechanical Engineers
- EML 3500 Mechanics of Solids
- EML 3022 Computer Aided Design and Engineering (CAD)
- EML 3041 Computational Methods
- EML 3262 Kinematics and Dynamics of Machinery
- EML 3701 Fluid Systems
- EML 4325 Mechanical Manufacturing Processes
- EML 3303 Mechanical Engineering Lab I
- EML 4123 Heat Transfer
- EML 4501 Machine Design
- EML 4106C Thermal Systems and Economics
- EML 4220 Vibrations
- EML 4302 Mechanical Engineering Laboratory II
- EML 4312 Mechanical Controls
- EML 4551 Capstone Design
- XXX XXXX HIP ERCE

Technical Writing (3 credit hours)

- ENC 3246 Communication for Engineers

MAJOR ELECTIVES (15 HOURS)

12 hours of Upper-Level Departmental Electives (Technical Design Elective) from the list below:

- BME 4332 Cell and Tissue Engineering
- BME 4440 Introduction to Bioastronautics
- EAS 4121 Hydro and Aerodynamics
- EGN 4366 Materials Engineering II
- EML 4141 Thermal Management of Electronic Systems
- EML 4230 Introduction to Composite Materials
- EML 4246 Tribology
- EML 4310 Microcontrollers
- EML 4326 Advanced Materials Processing
- EML 4414 Power Plant Engineering
- EML 4419 Propulsion I
- EML 4421 Internal Combustion Engines
- EML 4450 Alternative & Renewable Energy
- EML 4503 Sustainable Design and Materials
- EML 4536 Applied FEA
- EML 4552 Senior Mechanical Design
Entrance and Continuation Requirements for the Mechanical Engineering Department

College of Engineering students who have fully met the below admission requirements and are in good academic standing, may declare a major in Mechanical Engineering. Prior to being admitted to a department, a student may be permitted to take no more than two departmental engineering courses.

Minimum Admission Requirements for Department of Mechanical Engineering

1. Completion of the following courses with a cumulative 3.0 GPA based on best attempt and a minimum grade of C in each course:
   - Calculus I (MAC 2311 or MAC 2281)
   - Calculus II (MAC 2312 or MAC 2282)
   - Calculus III (MAC 2313 or MAC 2283)
   - Calculus-based Physics I with Lab (PHY 2048 and PHY 2048L)
   - Calculus-based Physics II with Lab (PHY 2049 and PHY 2049L)
   - General Chemistry I with Lab (CHM 2045 and CHM 2045L) or (CHS 2440 and CHS 2440L)

2. A minimum overall GPA of 2.5

3. A minimum USF GPA of 2.5

Minimum Continuation Requirements for Department of Mechanical Engineering

Completion of EML 3500 Mechanics of Solids and EGN 3343 Thermodynamics I with a minimum grade of C in each course (C- is insufficient).

GPA and Grade Requirements

The minimum acceptable grade in all BSME required math and science courses is a C or higher (C- is insufficient). The minimum acceptable grade in engineering and specialization courses which are prerequisites to other degree required courses is a C-, excepted as stated in the Department Continuation Requirements. The passing grade for terminal engineering and specialization courses is a C-. Students must have and maintain a minimum 2.0 Math and Science GPA, 2.0 Engineering GPA, 2.0 Specialization GPA, 2.0 USF GPA, and 2.0 Overall GPA.

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 and/or survey as a graduation requirement.

GPA REQUIREMENTS

Students must have and maintain a minimum 2.0 Math and Science GPA, 2.0 Engineering GPA, 2.0 Specialization GPA, 2.0 USF GPA, and 2.0 Overall GPA.
COURSE GRADE REQUIREMENT

Continuation requires completion of EML 3500 Mechanics of Solids and EGN 3343 Thermodynamics I with a minimum grade of C in each course (C- is insufficient).

GRADING REQUIREMENT

The minimum acceptable grade in all BSME required math and science courses is a C or higher (C- is insufficient). The minimum acceptable grade in engineering and specialization courses which are prerequisites to other degree required courses is a C-, except as stated in the Department Continuation Requirements. The passing grade for terminal engineering and specialization courses is a C-.

RESIDENCY REQUIREMENT

Transfer students must complete a minimum number of approved specialization courses in the major at USF. 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. Basic engineering courses are not considered specialization courses. The University residency requirement must also be met.

A dual degree student must meet the requirements of each major and have a minimum of 18 approved specialization hours taken in the degree granting department beyond those specialization hours required for the first degree.

RESEARCH OPPORTUNITIES

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.

There are a number of options to receive academic credit for a mentored research experience and to have the experience show on the official transcript. Students who wish to enroll in an undergraduate research course should consult with their academic advisor to understand how the credit will apply towards the degree requirements. If no credit is needed, students may be eligible to enroll in the 0-credit IDS 2912 or IDS 4914 courses. These courses will not impact degree credits or GPA but will show on an official transcript and document the experience.

INTERNSHIP OPPORTUNITIES

The College of Engineering and USF’s Career Services Cooperative Education (Co-Op) program provides services for students interested in experiential educational 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 first year in the engineering college and pursue actual internships during their sophomore, junior, and senior years.

ACCELERATED B.S/M.S. PROGRAM

Students majoring in Mechanical Engineering have the option to pursue one of the following accelerated programs:

- B.S.M.E. in Mechanical Engineering and M.S.B.E. in Biomedical Engineering
- B.S.M.E. in Mechanical Engineering and M.M.E. in Mechanical Engineering
- B.S.M.E. in Mechanical Engineering and M.S.M.E. in Mechanical Engineering
- B.S.M.E. in Mechanical Engineering and M.S.E.M. in Engineering Management
- B.S.M.E. in Mechanical Engineering and M.S.M.S.E. in Materials Science and Engineering

ACCREDITATION INFORMATION

The Bachelor of Science in Mechanical Engineering degree is accredited by the Engineering Accreditation Commission of ABET, [http://www.abet.org](http://www.abet.org).
ADVISING INFORMATION
Dr. Ajit Mujumdar, Undergraduate Advisor, 813-974-9677, Engineering Building III (ENC) 1201.

MECHANICAL ENGINEERING FACULTY

MINOR IN BIOMEDICAL ENGINEERING (EBI)
TOTAL MINOR HOURS: 15
http://www.usf.edu/engineering/undergraduate/minors.aspx

The Biomedical Engineering minor is open to all Engineering majors and other students who meet the prerequisites listed below. For Engineering majors, at least nine (9) credit 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’s undergraduate advisor prior to starting this minor.

REQUIREMENTS FOR THE MINOR IN BIOMEDICAL ENGINEERING

This Biomedical Engineering minor is a 15-credit hour program that is open to all Engineering majors and other students who meet the prerequisites listed under additional minor requirements.

MINOR CORE (6 HOURS)
- BME 4100 Biomedical Engineering
- BME 4406 Engineering of Biological Systems

MINOR ELECTIVES (9 HOURS)
The remaining 9 credit hours can be taken from the following list:
- BCH 3023 Introductory Biochemistry or BCH 3053 General Biochemistry
- BME 4332 Cell and Tissue Engineering
- BME 4440 Introduction to Bioastronautics
- BME 4409 Engineering Physiology
- BME 4571 Nanomedicine
- BME 4931 Selected Topics in Biomedical Engineering**
- BME 5040 Pharmaceutical Engineering
- BME 5320 Theory and Design of Bioprocesses
- BME 5937 Selected Topics in Biomedical Engineering**
- ECH 4931 Special Topics in Chemical Engineering*
- ECH 5748 Selected Topics in Biomedical Engineering**
- EEE 4274 Chemical/Bio Sensors & Microfabrication
- EEE 4506 Biomedical Image Processing
- EIN 4243C Human Factors
PHZ 4702 Applications of Physics to Biology & Medicine I
PHZ 4703 Applications of Physics to Biology & Medicine II

*The list of approved special topics courses is below.

- ECH 4931 Special Topics in Chemical Engineering:
  - Bioseparations
  - Modern Biomedical Technologies
  - Research Design Methods & Interpretations
  - Bioelectricity or EEE 4260CBioelectricity

**Please see academic advisor for selected topics courses.

Prerequisite courses:
1. Biology I: BSC 2010
2. Calculus II: MAC 2282, MAC 2242, or MAC 2312
3. Physics II: PHY 2049 or PHY 2054
4. General Chemistry II: CHM 2046

OTHER REQUIREMENTS

Student must register with the Department of Chemical & Biomedical Engineering undergraduate advisor prior to starting this minor program.

ADVISING INFORMATION

Scott W. Campbell (campbell@usf.edu)

MINOR IN COMPUTER SCIENCE (BCS)

TOTAL MINOR HOURS: 18

http://www.usf.edu/engineering/undergraduate/minors.aspx

The Computer Science minor covers key topics in the discipline and is an 18 credit hour program that is expected to be attractive to students in other Engineering departments and to students in Mathematics and the Sciences (including Physics, Chemistry, and Biology).

REQUIREMENTS FOR THE MINOR IN COMPUTER SCIENCE

The Computer Science minor is open to all students, except for students majoring in Computer Science, Computer Engineering, Information Technology, and Cybersecurity who meet the prerequisites described below.

MINOR CORE (12 HOURS)

- COP 3514 Program Design
- CDA 3103 Computer Organization
- COP 3331 Object-Oriented Software Design
- COP 4530 Data Structures

MINOR ELECTIVES (6 HOURS)

Two Departmental electives of student’s choice (in consultation with the Department Undergraduate Advisor) for which prerequisites have been met.

Students must register with the Department Undergraduate Advisor prior to starting this minor program. Consultation with the Department Undergraduate Advisor will ensure 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 prerequisites, entry, and continuation requirements as a Departmental major.

Note: Introduction to Discrete Structures (COT 3100 or equivalent) is required as a prerequisite for COP 4530 Data Structures and COT 4400 Analysis of Algorithms.

**GPA REQUIREMENTS**

Successful completion of the minor requires a minimum 2.0 GPA in the above listed courses.

**COURSE GRADE REQUIREMENT**

Continuation in the minor requires successful completion of CDA 3103 and COP 3514 with minimum grades of B, based on best attempts in each course. Grades of B- are insufficient. These requirements must be met with a maximum of two attempts allowed for each course.

**OTHER INFORMATION**

Specialty tracks in hardware, software, and theory can be defined in consultation with the Department Undergraduate Advisor. A specific pre-graduate school track intended for students planning to seek admission into the Department graduate program has been defined with 9 hours of electives (for a total 24 hours for the minor). The electives are:

- COT 4400 Analysis of Algorithms
- COP 4600 Operating Systems
- CDA 4205 Computer Architecture

**ADVISING INFORMATION**

Department Undergraduate Advisor: [http://www.usf.edu/engineering/cse/undergraduate/contacts.aspx](http://www.usf.edu/engineering/cse/undergraduate/contacts.aspx)

**MINOR IN INFORMATION TECHNOLOGY (ITC)**

**TOTAL MINOR HOURS: 21**

[http://www.usf.edu/engineering/undergraduate/minors.aspx](http://www.usf.edu/engineering/undergraduate/minors.aspx)

The Information Technology minor covers key topics in the discipline and is a 21 credit hour program that is expected to be attractive to students in other Engineering departments and to students in Mathematics and the Sciences (including Physics, Chemistry, and Biology) who have no background in software development.

**REQUIREMENTS FOR THE MINOR IN INFORMATION TECHNOLOGY**

The Information Technology minor is open to all students, except for students majoring in Computer Science, Computer Engineering, Information Technology, and Cybersecurity, who meet the prerequisites described below.

**MINOR CORE (15 HOURS)**

- CGS 1540 Introduction to Databases for Information Technology
- CGS 3303 IT Concepts
- COP 2512 Programming Fundamentals for Information Technology
- COP 2513 Object Oriented Programming for Information Technology
- COP 3515 Advanced Program Design for Information Technology

**MINOR ELECTIVES (6 HOURS)**

Two Departmental electives of student’s choice (in consultation with the Department Undergraduate Advisor) for which prerequisites have been met.

Students must register with the Department Undergraduate Advisor prior to starting this minor program. Consultation with the Department Undergraduate Advisor will ensure that students are informed of all offered courses. All catalog prerequisites and registration requirements must be met for enrollment in any of the courses taken for the minor.
All students desiring to pursue the minor must meet the same prerequisites, entry, and continuation requirements as a Departmental major.

GPA REQUIREMENTS

Successful completion of the minor requires a minimum 2.0 GPA in the above listed courses.

ADVISING INFORMATION


MINOR IN IT TECHNICAL MINOR (ITE)

TOTAL MINOR HOURS: 24

http://www.usf.edu/engineering/undergraduate/minors.aspx

The IT Technical minor provides a small core of three essential technical courses meant to provide students with the conceptual and technical basis necessary to deal with more advanced topics. Rounding out the IT Technical minor are five electives to be chosen from a larger set of courses. Students are expected to develop a conceptual understanding of the IT field while developing programming skills they may apply to strengthen their major.

REQUIREMENTS FOR THE MINOR IN IT TECHNICAL MINOR

This Information Technology Technical Minor is a 24 credit hour program that is open to all students, except for Information Technology, Computer Science, or Computer Engineering majors, who meet the prerequisites listed.

MINOR CORE (9 HOURS)

Required Courses:
- CGS 3303 IT Concepts
- COP 3515 Program Design for Information Technology
- EEL 4854 Data Structures and Algorithms for IT

MINOR ELECTIVES (15 HOURS)

Electives (choose five courses from the list below):

- CDA 3101 Computer Organization for Information Technology (PR: CGS 3303)
- CEN 3722 Human Computer Interfaces for Information Technology
- CEN 4031 Software Engineering Concepts for IT (PR: EEL 4854)
- CIS 4361 Information Technology Security Management
- CIS 4412 Information Technology Resource Management
- CNT 4104 Computer Information Networks for Information Technology
- CNT 4104L Computer Information Networks Laboratory for IT
- COP 4610 Operating Systems for Information Technology (PR: EEL 4854)
- COP 4703 Database Systems for Information Technology (PR: EEL 4854)
- Selected special topics courses in the Department

Students must register with the IT Program undergraduate advisor prior to starting this minor program. Consultation with the 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.

Prerequisites for Required Courses (9 credit hours):
- CGS 1540 Introduction to Databases for Information Technology
- COP 2512 Programming Fundamentals for Information Technology
- COP 3515 Program Design for Information Technology

GPA REQUIREMENTS

Successful completion of the minor requires a minimum 2.0 GPA in the above listed courses.

ADVISING INFORMATION

Department Undergraduate Advisor: http://www.usf.edu/engineering/cse/undergraduate/contacts.aspx
CERTIFICATE IN FOUNDATIONS OF CYBER SECURITY

TOTAL CERTIFICATE HOURS: 12

http://www.usf.edu/engineering/cse/index.aspx

This certificate covers a broad range of topics in Information Technology (IT) and Cybersecurity with a focus on practical tools for analyzing and protecting IT systems. Students completing the certificate will understand threats to IT systems and how to mitigate these threats. This certificate program is open to all students except students majoring in Computer Science, Computer Engineering, Information Technology, and Cybersecurity. There are no prerequisite requirements to enter the certificate program.

REQUIREMENTS FOR THE CERTIFICATE IN FOUNDATIONS OF CYBER SECURITY

This certificate requires successful completion of four core courses - there are no elective courses. The four courses come from the BS in Information Technology program in the Department of Computer Science and Engineering. In rare cases, substitutions may be possible. Contact the Department Undergraduate Advisor for more information.

CERTIFICATE CORE (12 HOURS)

- CGS 1540 Introduction to Databases for Information Technology
- CGS 3303 IT Concepts
- CIS 3213 Foundations of Cyber Security
- COP 2512 Programming Fundamentals for Information Technology

Students must register with the Department Undergraduate Advisor prior to starting this certificate program. Consultation with the Department Undergraduate Advisor will ensure that students are informed of all offered courses. All catalog prerequisites and registration requirements must be met for enrollment in any of the courses taken for the minor.

All students desiring to pursue the certificate must meet the same prerequisites, entry, and continuation requirements as a Departmental major.

Note: The prerequisite for CGS 3303 is CGS 1540 (CGS 1540 has no prerequisite) and the prerequisite for CIS 3213 is COP 2512 (COP 2512 has no prerequisite). The certificate can typically be completed in one academic year.

GPA REQUIREMENTS

A cumulative GPA of 2.0 in the certificate coursework is required.

ADVISING INFORMATION

Department Undergraduate Advisor: http://www.usf.edu/engineering/cse/people/advisor.aspx.
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Honors College

Contact Information

Honors College  
4202 E. Fowler Avenue, ALN 241  
Tampa, FL 33620  
(813) 974-3087  
https://www.usf.edu/honors/index.aspx

Physical Location: John & Grace Allen Building (ALN) is located in the center of the USF campus. From the main entrance on Fowler Ave., follow Leroy Collins Blvd.

About the College

The USF Honors College offers a remarkable learning experience that combines the resources of one of the country's top research universities with the personal attention and close-knit community you would expect from a top-tier, private institution. The Honors College enrolls high-ability students from virtually every USF major in a comprehensive, interdisciplinary program designed to provide future leaders with valuable skills and knowledge that enhance the training that they receive in their majors. The primary goals of the Honors College are to develop superior critical thinking skills through intensive research and interdisciplinary learning, foster a nuanced global perspective on contemporary issues through an internationalized curriculum and meaningful study abroad experiences, and encourage a rich understanding of social concerns through structured community engagement projects.

Mission, Vision, Values

The mission of the Honors College is to cultivate creativity and practical wisdom through interdisciplinary inquiry and ethical engagement, both locally and globally. The Honors College equips students to put values into practice in order to grow personally while contributing to our community in the following ways: We value self-cultivation, so we practice purposeful play. We value community, so we practice collaborative and experiential learning. We value global thinking, so we practice responsible and engaged citizenship.

College-Level Requirements

Admission Requirements

Admission for FTIC Students

The Honors College actively recruits students who have demonstrated academic excellence through high test scores and high school GPA. Students admitted to USF who have 30 ACT or 1370 SAT and at least a 4.0 will be automatically accepted into the Honors College. Honors College acceptance emails and letters are sent a few weeks after USF acceptance materials, or after we receive eligible scores. This process begins in October and ends May 1st.

We also know that excellence takes a variety of forms, and therefore we encourage applications from any student who wants to be considered on the basis of his/her achievements. The Honors College Application requires an essay and resume. Applications are reviewed by a team of current Honors College students, faculty, and staff. The application link can be found on our Admissions website at https://www.usf.edu/honors/prospective-students/application.aspx.

Admission for Transfer or Continuing USF Students

The Honors College offers admission to an upper-level program for students who are already enrolled as USF students, or who are transferring to USF from a state or community college. Students who have a 3.5 college GPA and have completed at least two semesters as college students may apply for admission; the link can be found on our Transfer/Continuing USF Students webpage at https://www.usf.edu/honors/prospective-students/transfer-continuing-students.aspx.
The Honors College offers a range of accelerated programs, guaranteed admissions programs, hosted scholarship programs, and community partnership programs. Please consult our website for up-to-date information about special programs at https://www.usf.edu/honors/accelerated-programs/index.aspx.

General Requirements for Honors College Distinction
Students who satisfactorily complete the Honors College curriculum and graduate with a USF GPA of 3.25 or above shall be identified as Honors College graduates on their diplomas and transcripts, as well as at the Honors College Graduation Ceremony. The Honors College curriculum is made up of the academic curriculum and two experiential learning components.

Academic Curriculum for FTIC Admits (15-18 credits)
Students admitted to the Honors College as first time in college students will complete the academic curriculum with four core honors courses and then select a research option.

- IDH 2930 Honors College Foundations (0 credits)
- IDH 2010 Acquisition of Knowledge (3 credits)
- IDH 4200 Geographic Perspectives (3 credits)
- 2 IDH core courses of your choice (6 credits)

Research Options:
- Honors College Thesis - IDH 4970 Honors Thesis, taken twice (6 credits)
- Honors College Capstone - IDH 4950 Honors Project, plus one core honors course (6 credits) FTIC Engineering majors will have the additional core honors course waived.
- Departmental Honors - Complete the requirements for a university departmental honors program.

Academic Curriculum for Continuing USF or Transfer Student Admits (12 credits)
Students admitted to the Honors College after having been enrolled as a USF student, or as transfer students will complete the academic curriculum with two core honors courses and then select a research option.

- 2 IDH core courses of your choice (6 credits)

Research Options:
- Honors College Thesis - IDH 4970 Honors Thesis, taken twice (6 credits)
- Honors College Capstone - IDH 4950 Honors Project, plus one core honors course (6 credits)
- Departmental Honors - Complete the requirements for a university departmental honors program

Core Honors Courses
- IDH 2010 Acquisition of Knowledge
- IDH 3100 Arts and Humanities
- IDH 3350 Honors Natural Sciences
- IDH 3400 Honors Social and Behavioral Sciences
- IDH 3600 Seminar in Applied Ethics
- IDH 4200 Geographic Perspectives
- IDH 4930 Selected Topics
- IDH 4950 Honors Project
Co-curricular Experiential Learning Components

All Honors students, both FTIC and Continuing/Transfer students, are required to complete experiential co-curricular learning components. The first experiential learning component is community service. We believe learning extends beyond the four walls of the classroom. The people and places in our local community offer lessons that complement and reinforce classroom-based learning. Options and guidelines for the community service experience are outlined on our website at https://www.usf.edu/honors/current-students/community-service.aspx.

The second experiential learning component is global experience. The Honors College is committed to making global awareness a critical element in the education of twenty-first century leaders. To meet this goal, the Global Experience requirement offers students the opportunity to choose from a variety of meaningful ways to build global knowledge and to develop competency in cultural interactions. Students will complete two experiences from a list of approved options (see https://www.usf.edu/honors/current-students/global-cultural-requirement.aspx).

Grading Requirements and Policies

Students in good standing have a minimum 3.25 USF GPA and a 3.25 Overall GPA (grade forgiveness is not included), are actively completing the requirements for the Honors College, and have completed an IDH core course in the last three semesters. Students in good standing have the privilege of priority status for course registration.

If a student's USF GPA falls below a 3.25 (but is 2.75 or higher), he or she will be placed on Honors College Probation. Students on probation will lose their priority registration status and any Honors scholarship payments, but are still eligible to enroll in Honors courses and see their Honors Advisor. Students will be removed from the probationary status when the GPA reaches a 3.25 again.

If a student's GPA falls below 2.75, he or she will be dismissed from the Honors College. Additionally, any student who earns a "D" or "F" in an Honors course will be dismissed from the College.

The university grade forgiveness policy does not apply to Honors College courses.

Graduation Requirements

Students who satisfactorily complete the Honors College requirements and graduate with a USF GPA of 3.25 or above shall be identified as Honors College graduates on their diplomas and transcripts, and at the Honors College Graduation Ceremony.

During their senior year, Honors College students should:

- Meet with the departmental advisor of your major to do a final graduation check to ensure you are meeting all of your major requirements.
- Meet with an Honors College Advisor to ensure that you are meeting your honors curriculum requirements.
- Submit a Bachelor Degree Application through Oasis.
  - Note: Some college deadlines, including Engineering, are earlier. College of Business requires an additional application worksheet. Please consult your department advising office for specific information.

After the deadline to apply for university graduation has passed, potential honors graduates will receive an email to complete a graduation survey. All Honors College students MUST complete this survey and submit their bachelor’s degree application. The deadline for completion is listed in the email.

The Honors College Graduation Survey includes information about registering for the Honors College commencement ceremony.

HONORS COLLEGE COMMENCEMENT

Each semester the Honors College acknowledges the accomplishments of our graduates during the Honors College Commencement Ceremony. Family and friends are invited to share in this special event and offer congratulations and appreciation to these amazing students.

- The date and time for the upcoming commencement ceremony can be found on the Honors College Calendar at https://calendar.google.com/calendar/embed?src=usf.hc.events@gmail.com&ctz=America/New_York&pli=1.
- Registration for the ceremony is included as part of your Honors College Graduation Survey, so if you are interested in attending please indicate this on the form. Once you submit the form, a confirmation email with specific information about details of the ceremony will be emailed to you.
The dress code for the ceremony is professional attire, however, caps and gowns should NOT be worn at the Honors College Commencement Ceremony. When you check-in at the commencement ceremony, we will provide the items & regalia necessary to identify you as an Honors College graduate, free of charge.

During the ceremony, each graduate will be recognized separately and we will request a photo of you in advance to include in the presentation.

Honors Commencement Ceremony is typically located in the Alumni Center in Traditions Hall.

Honors Scholarships & Housing

Honors Scholarships

The Honors College awards competitive scholarships to its new and continuing students.

All Honors College students receive $2,000 in academic scholarships. This award is paid in three installments during the students' academic career:

- $600 during the first year after completing the college's community engagement requirement.
- $600 during the second year after completing the college's global experience requirement.
- $800 during the third or fourth year after completing the college's academic requirements.

Most Honors College students also qualify for very generous travel scholarships to fund study abroad opportunities.

In addition, thanks to the generosity of many donors, there are more than 30 competitive scholarships available exclusively to Honors College students.

Students may apply for these Honors-specific awards, as well as, general USF scholarships (see https://www.usf.edu/financial-aid/scholarships/index.aspx). These applications typically open in November and are due in January for new students and April for continuing students.

You may also want to visit the Office of National Scholarships for more information about competitive academic awards.

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 cohort of Jenkins Scholars are selected 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 mentoring activities, academic/personal development seminars, career advising and planned activities with the Holcombe family.

Office of National Scholarships

Location/Phone: John and Grace Allen (ALN) 271; (813) 974-3087
Web Address: https://www.usf.edu/ons/

The Office of National Scholarships identifies, recruits and mentors high achieving students, both undergraduate and graduate, to apply for prestigious nationally competitive scholarships, fellowships and awards such as the Rhodes, Marshall, Mitchell, Fulbright, Goldwater and Truman. 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.

Director: Sayan Basu
Honors Living Learning Community (LLC) - Honors Housing
The Honors LLC is a residential experience open to all Honors College students. We strive to create a respectful and close-knit community while celebrating the diversity of our students. To encourage student development in a variety of interests, the Honors LLC has created two themed common spaces: “Educate and Create” and “Build and Innovate”. Regardless of major, students can explore everything from film and music education to architecture and software development. The focus of our community is to simultaneously develop our students' academic and extracurricular interests. To do so, we host programs and activities related to career exploration, networking, and connecting with Honors faculty. The Honors LLC will be housed in Summit, one of the newest residence halls opening in Fall 2017.

If you're interested in joining our community, please visit us at https://www.usf.edu/honors/prospective-students/housing.aspx

For more information on our new residence hall, Summit, please visit: https://www.usf.edu/housing/residential-learning/llc.aspx

Baccalaureate-Level Degree Programs

Honors Programs
The USF Honors College offers a number of programs which are subdivided into the following categories:

Accelerated Programs
https://www.usf.edu/honors/accelerated-programs/accelerated.aspx
Students can earn their undergraduate, medical, or pharmacy degrees at an accelerated pace in one of our Honors College accelerated programs.

Guaranteed Admission Programs
https://www.usf.edu/honors/accelerated-programs/gaps.aspx
The Honors College offers two pathways that will guarantee admission to either the Master's in Medical Sciences or Doctor of Physical Therapy programs.

Early Acceptance Programs
https://www.usf.edu/honors/accelerated-programs/early-acceptance-programs.aspx
The Honors College, in affiliation with Lake Erie College of Osteopathic Medicine (LECOM), offers eligible Honors College students Early Acceptance Admission Programs to the Doctor of Osteopathic Medicine (DO) and the Doctor of Dental Medicine (DMD).

Hosted Scholarship Programs
https://www.usf.edu/honors/accelerated-programs/hosted-scholarships.aspx
The Honors College hosts three scholarship programs for both Honors and non-Honors students.

Community Partnership Programs
https://www.usf.edu/honors/accelerated-programs/partnerships.aspx
We partner with many groups and organizations throughout Tampa Bay. These partnership programs allow students to learn and research outside of the classroom.

Dual Enrollment Program
https://www.usf.edu/honors/accelerated-programs/dual-enrollment.aspx
Dual enrollment in USF classes is open to academically qualified students who are currently enrolled in public/private high schools and who are recommended by their guidance counselor or principal.

Early Admission Program
https://www.usf.edu/honors/prospective-students/early-admission.aspx
Under the Early Admission program you may enter the University of South Florida (Tampa) as a regularly enrolled (matriculated), degree-seeking student prior to graduation from high school. Applicants must meet minimum Honors College eligibility criteria (see https://www.usf.edu/honors/prospective-students/early-admission.aspx).
Research Tracks
https://www.usf.edu/honors/current-students/thesis.aspx

All Honors College students must complete a research track consisting of either a thesis or capstone course. Thesis is an individual research project on a topic of the students' choice, under the direction of a faculty member selected by the student. Thesis may also be completed through departmental honors programs. The Honors Capstone course brings Honors students together to take an interdisciplinary approach to solving real-world problems through undergraduate research and practical application.

Community Engagement
https://www.usf.edu/honors/current-students/community-engagement.aspx

Honors College students will accumulate 50 hours of community service. Service can take place through one site or organization, or through multiple opportunities, based on your interests. These hours may overlap with those required for the Global Citizen Award, or other pre-professional goals.

- Transfer and continuing students who enter the College in the Fall of 2016 or later are required to complete 25 hours of community service.

Global/Cultural Requirement
https://www.usf.edu/honors/current-students/global-cultural-requirement.aspx

The Honors College is committed to making global awareness a critical element in the education of twenty-first century leaders. To meet this goal, the Global Experience requirement offers students the opportunity to choose from a variety of meaningful ways to build global knowledge and to develop competency in cultural interactions.

Peer Mentoring
https://www.usf.edu/honors/current-students/peer-mentors.aspx

During their orientation, each new Honors College freshman is paired with a peer mentor, an upper-classman enrolled in the Honors College. These mentors are students selected and trained in leadership, advising, and group dynamics so they can share their college experience and expertise!

New students will register for IDH 2930 - Peer Mentoring and will meet with a small group led by their mentor throughout the fall semester. This class is zero credits and has no tuition charge, but it will be reflected on transcripts and is a required part of the Honors College Experience.

Accelerated Programs

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://ugs.usf.edu/credit-by-exam/ 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 https://www.usf.edu/innovative-education/programs/online-programs/online-undergraduate-programs.aspx.
Accelerated and Pathway Programs
The Honors College offers a variety of accelerated and pathway programs. Details regarding each of these programs can be found on the Honors College website at https://www.usf.edu/honors.

Provost’s Scholars Program
https://www.usf.edu/honors/accelerated-programs/psp.aspx

Students complete a bachelor degree in three years, while enjoying a rich college experience that includes leadership, research, and education abroad.

7-Year B.S./MD Program
https://www.usf.edu/honors/accelerated-programs/psp.aspx

Potential First-time in College (FTIC) students must present a 1470 SAT (Critical Reading and Math) or a 32 composite ACT score, 4.0 weighted high school GPA, and must be a U.S. Citizen or Permanent Resident of the United States. Students in this program follow a set curriculum for the B.S. in Biomedical Sciences and must meet identified GPA and MCAT benchmarks, including a successful medical school interview, to be admitted to the Morsani College of Medicine in the 4th year of study. Admission is determined by the Morsani College of Medicine.

7-Year B.S./PharmD Program
https://www.usf.edu/honors/accelerated-programs/bs-pharmd.aspx

Potential First-time in College (FTIC) students must present at least a 1360 SAT (Critical Reading and Math) or a 29 composite ACT score, 3.8 weighted high school GPA, and must be a U.S. Citizen or Permanent Resident of the United States. Students in this program follow a set curriculum for the B.S. in Biomedical Sciences and must meet identified GPA and MCAT benchmarks, including a successful College of Pharmacy interview, to be admitted to the USF Health College of Pharmacy in the 4th year of study. Admission is determined by the USF Health College of Pharmacy.

Bachelor/JD Program
This 3+3 program will allow first year students to use their first year law curriculum to count as the 4th year elective requirements for the Bachelor’s degree. Students must be admitted to the Honors College as first year students and meet program criteria.

Guaranteed Admissions Pathway for Doctor of Philosophy (PhD) in Nursing Program
Potential First-time in College (FTIC) students must present at least a 1360 SAT (Critical Reading and Math) or a 29 composite ACT score, 3.8 weighted high school GPA, and must be a U.S. citizen or Permanent Resident of the United States. FTIC students who have been admitted to the Honors College and are interested in a career as a Nurse-Scientist are offered a guaranteed admission pathway to USF Health’s College of Nursing and complete a Bachelor of Science (Nursing) and a Doctor of Philosophy (Nursing) provided that the student meets all of the benchmarks of the program, including a successful interview with the College of Nursing.

Guaranteed Admissions Pathway for Doctor of Physical Therapy Program
Potential First-time in College (FTIC) students must present at least a 1360 SAT (Critical Reading and Math) or a 29 composite ACT score, 3.8 weighted high school GPA, and must be a U.S. Citizen or Permanent Resident of the United States. FTIC students who have been admitted to the Honors College and are interested in a career in physical therapy are offered a guaranteed admission pathway to USF Health’s School of Physical Therapy & Rehabilitation Sciences (SPTRS) and complete a Doctor of Physical Therapy (DPT), provided that the student continues to meet all the benchmarks of the program, including a successful interview with SPTRS. There is no GRE requirement for this program. Admission is determined by the SPTRS/Morsani College of Medicine.

Guaranteed Admissions Pathway for Master of Science in Medical Sciences Program (MSP3)
Potential FTIC and transfer students in good standing with the Honors College must meet identified GPA and GRE, MCAT or DAT benchmarks to apply to the School of Biomedical Sciences (SBS)/Morsani College of Medicine in order to be considered. The Honors MSP3 GAP is a direct entry program designed to assist USF’s Honors College students seeking admission into a health professional school (e.g., MD, DO, DMD, DVM, PharmD). This program will allow qualified Honors College students guaranteed acceptance into the Master of Science in Medical Sciences Pre-professional Program. Admission is determined by the School of Biomedical Sciences/Morsani College of Medicine.
Undergraduate Advising Information

Contact Information

Honors College Advising
4202 E. Fowler Avenue, ALN 241
Tampa, FL 33620
(813) 974-3087
https://www.usf.edu/honors/prospective-students/advising.aspx

The mission of the Honors College advising team is to empower students to acquire, create, and contribute knowledge by promoting diverse learning experiences, active goal setting, reflection, and involvement in the university and global community. Academic advising is a vital component of the Honors College experience. We collaborate with departmental advisors to ensure students get accurate and timely advice to ensure timely degree completion.

A walk-in Honors College advisor is also on duty every weekday from 8:30 a.m. to 12:00 p.m. and again from 1:00 p.m. to 4:30 p.m. for quick questions or help. Walk-In advisors will NOT remove AA holds, create 4-year academic plans, or graduation checks. Please make an appointment for those needs.

To make a face-to-face appointment with an Academic Advisor:

If you are an accepted or currently registered student at USF, use EScheduler at https://usfweb.usf.edu/eScheduler/student.aspx (requires login).

If you ARE NOT a USF student, use the advisor appointment system at https://usfweb.usf.edu/eScheduler/NonStudentLogin.aspx

Faculty
Adams, Charles; Bush, Alan; Cross, Michael; Davidson, Lindy; Lankenau, Greg; Sakai, Atsuko; Salim, Ulluminair; Singh, Holly; Wilkins, Catherine; Young, Benjamin.

FOR PROGRAM REQUIREMENTS,
SEE UNDERGRADUATE STUDIES SECTION OF THE CATALOG.
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College of Nursing

Contact Information

College of Nursing
12901 Bruce B. Downs Blvd, MDC Box 22
Tampa, FL 33612
(813) 974-2191
https://health.usf.edu/nursing/

Physical Location: College of Nursing 12912 USF Health Drive, Tampa, FL 33612

About the College

The College of Nursing is a world class nursing program shaping the nursing profession and is an integral part of USF Health and the University of South Florida. We strive to live by our mission – Preparing 21st-Century Nurses to Promote Health and Wellness in Our Community and Around the World. We lead as a result of our dedicated faculty and staff committed to student success and as demonstrated by our exceptional rankings.

At the College of Nursing, the faculty and staff strive to assist students in excelling in a high-impact, innovative research and entrepreneurial environment. Students can choose from a professional Baccalaureate, a Master's, a Doctorate in Nursing Practice and PhD Nursing degrees.

Mission, Vision, Values

Mission: USF College of Nursing provides innovation and leadership in preparing 21st-century nurses to demonstrate excellence in research, education, and clinical care while promoting health and wellness in our community and around the world.

Vision: By educating students from diverse demographics, we ensure that our USF Bull nurses mirror the populations they serve.

Accreditation

The Baccalaureate Program at the University of South Florida is accredited by the Commission on Collegiate Nursing Education. The program is unconditionally approved by the Florida State Board of Nursing. Graduates of the Upper Division, Accelerated Second Bachelor's Degree, and V-CARE majors are eligible to sit for the National Council Licensure Examination (NCLEX) Registered Nurse qualifying exam. Graduates may apply for licensure in Florida or other states. Successful undergraduates have the educational background necessary for graduate study in nursing.

Commission on Collegiate Nursing Education (CCNE)
655 K Street, NW, Suite 750
Washington, DC 20001
(202) 887-6791
http://www.ccneaccreditation.org/

Commission on Colleges of the Southern Association of Colleges and Schools (SACS)
1866 Southern Lane
Decatur, GA 30033
(404) 679-4500
http://www.sacs.org/
College-Level Requirements

The College of Nursing is a limited access college and uses selective criteria for the admission of students. Any student who applies to the undergraduate program in the College of Nursing is initially coded as "Pre-Nursing" prior to official acceptance to the College of Nursing. Final admission to all Nursing programs is conditional upon passing a Level 2 background check.

Admission Requirements

In addition to University admission requirements, the College of Nursing has additional admission requirements for each major. Please review admission requirements for the specific major to which you are applying.

Background Checks, Fingerprinting, Drug Testing and Immunizations

All students who are admitted to the College of Nursing are required to complete a Background Check, Immunization Verification, and Drug Screening for the College of Nursing via Castlebranch.com.

- The requirements are as follows: MMR, Varicella, Hepatitis B, Documentation of a Tdap booster, TB skin test, CPR certification from the American Heart Association, and a flu shot.
- All requirements must be completed by the first week of class.
- The Castle Branch account must be created with a USF Health email address, which is only available to students who have been admitted to the College of Nursing.
- Final admission to all Nursing majors is conditional upon passing a Level 2 background check. Students who do not pass the level 2 background check will not be refunded the cost by either the college or Castle Branch.

For Castlebranch.com questions regarding requirements, documents, or status, please contact Castle Branch at (888) 914-7279.

Program-Specific Requirements

Students must be admitted by the USF Tampa Undergraduate Admissions Office before they can submit their application to the College of Nursing (Students must have USF Tampa Campus as their home campus).

Student Computer Requirement

https://health.usf.edu/~media/Files/Nursing/Current%20Students/CON_Computer_Requirements_Approved_Spring_2017-Revisedv2.ashx

All USF College of Nursing students are required to have a laptop/notebook computer with wireless internet connection. Students are also required to have a compatible webcam and microphone; the webcam and microphone should either be built into your notebook or be a portable model. Specific information on requirements can be found on the website.

Students in all nursing courses are expected to meet these requirements to successfully participate in their courses. Failure to meet these technology standards may result in inability to complete course or program requirements. It is the student's responsibility to ensure all requirements are met prior to the start of the semester.

Nursing: Accelerated Second Degree

https://health.usf.edu/nursing/undergraduate/programs/second-degree

The Accelerated Second Bachelor's Degree major (SBN) is for students who have a baccalaureate degree in another field and a minimum undergraduate GPA of 3.00. Students with a Bachelor's degree in a non-nursing field and who have completed all the nursing pre-requisite courses may be considered for admission into the Accelerated Second Bachelor's Degree major; 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.

Criteria for Accelerated Second Bachelor's Degree:

- Admission to the University of South Florida, as a degree seeking undergraduate student.
- Completed of the first Bachelor's degree from a regionally accredited institution by the program start date for the term of entry.
- Minimum 3.0 cumulative GPA on all undergraduate work.
Completion of at least seven of the eight Nursing prerequisite courses by the published deadline for the intended term of entry

- Note: Any outstanding Nursing prerequisites must be completed by the program state date, with a minimum grade of C or better, while maintaining a cumulative GPA greater than or equal to 3.0.

- If selected, a formal interview with College of Nursing faculty.

Nursing: RN to Bachelor's
https://health.usf.edu/nursing/undergraduate/programs/rn-to-bs

The RN to Bachelor's major (NRN) is for students currently licensed to practice as a Registered Nurse. The RN to BS option allows an RN with a diploma or an associate’s degree in nursing from a regionally accredited school to earn a Bachelor of Science degree with a major in nursing.

Criteria for Nursing: RN to Bachelor's Degree:

- Admission to the University of South Florida (Tampa Campus) as a degree seeking undergraduate student.
- Completed application to the College of Nursing prior to the published deadline for the intended term of entry.
- Minimum 3.00 GPA on all undergraduate work. Required prerequisite course grades may be weighted.
- Submission of a specified essay to be weighed along with cumulative GPA and experience for possible admission.
- Lower and Upper Level applicants must submit all official transcripts from each college or university attended, including the military American Council on Education transcript.
- To be considered for admission, all transfer applicants are required to have successfully completed 67 percent of all transfer credit hours attempted at any institution attended.
- Completion of the University’s foreign language entrance requirement.

Nursing: Upper Division
https://health.usf.edu/nursing/undergraduate/programs/upper-division

The Upper Division major (NUR) is our traditional baccalaureate nursing major for students who have completed nursing prerequisite courses and university general education requirements. This is a full-time limited access program, as mandated by the state, and is structured sequentially. Admission is competitive.

Criteria for Upper Division:

- Admission to the University of South Florida as a degree-seeking undergraduate student.
- Completed application to the College of Nursing prior to the published deadline for the intended term of entry.
- Minimum 3.20 cumulative GPA on all undergraduate work.
- Completion of seven of the eight nursing pre-requisites courses by published application deadline for the intended term of entry
  - Note: Any outstanding nursing prerequisite courses must be completed by the program start date, with a minimum grade of C or better, while maintaining a cumulative GPA greater than or equal to 3.0.
- Completion of English Composition I, English Composition II and the State Communication Requirement by the published application deadline.
- Completion of the University’s foreign language entrance requirement (FLENT) and university general education requirement by the intended term of entry.
- If selected, a formal interview with College of Nursing faculty.
If a student receives a grade less than a C in any two prerequisite courses while declared as Pre-Nursing, the student will be required to select another major at the University of South Florida. Grade forgiveness will not apply to the mandated requirement of changing the major. In addition, if a student does not meet the minimum GPA requirement to be eligible to apply for admission following 60 completed hours and all prerequisite courses attempted, the student will be required to select another major at the University of South Florida.

Nursing: V-CARE
[https://health.usf.edu/nursing/undergraduate/programs/vbsn](https://health.usf.edu/nursing/undergraduate/programs/vbsn)

The Veteran to Bachelor's (V-CARE) program allows service members and veterans with medical training experience as medics or corpsmen the opportunity to receive a bachelor's of science degree with a major in nursing. The V-CARE program is typically completed in four consecutive semesters (after prerequisites, Foreign Language, and Enhanced General Education requirements). Graduates may then take the National Council Licensure Examination (NCLEX) to earn their RN license. Prerequisites can be completed at any regionally accredited college/university with completion of nursing coursework at the Tampa campus. The V-CARE program is a full-time limited access program, as mandated by the state, and is structured sequentially. Admission is competitive.

Criteria for Veteran to Bachelor's (V-CARE):

- 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.
- Applicants must have U.S. Army Medic, U.S. Air Force Medic, or U.S. Navy Corpsman training and experience to be a candidate for the V-CARE major.
- Minimum 3.0 cumulative GPA on all undergraduate coursework.
- Completion of the Nursing prerequisite courses by the published application deadline for the intended term of entry.
  - Students who do not have all prerequisite courses completed by the intended term of entry may be eligible for conditional admission.
  - Note: Any outstanding Nursing prerequisite courses must be completed by the program start date, with a C or better, while maintaining a cumulative GPA greater than or equal to 3.0.
- Completion of English Composition I, English Composition II and State General Education Mathematics requirement by the published application deadline.
- If selected, a formal interview with College of Nursing faculty.
- Completion of the University's foreign language entrance requirement (FLENT) and University General Education requirements.
- Submission of a professional resume.

Graduation Requirements

Grading & Progression Policy
In addition to the University's policies on progression, The College of Nursing holds a progression policy for all students within the nursing undergraduate program. Students admitted to all nursing majors at The College of Nursing are required to earn a minimum grade of C in didactic courses and an S in lab/clinical courses. Progression in the majors is based on GPA, course content and overall performance in lab/clinical. Failure to meet the grade minimum may result in dismissal from the College.

For further information on progression and grading policies, please visit the College of Nursing Handbook: [https://health.usf.edu/~media/Files/Nursing/Current%20Students/Baccalaureate_Handbook-8-10-18.ashx?la=en](https://health.usf.edu/~media/Files/Nursing/Current%20Students/Baccalaureate_Handbook-8-10-18.ashx?la=en)

NCLEX-RN Examination

Upon successful completion of the program requirements and upon recommendation by the Dean, graduates are eligible to take the National Council Licensure Examination (NCLEX-RN) leading to the registered nurse (RN) license to practice nursing.
The College of Nursing cannot guarantee that the Board of Nursing will authorize students with criminal or substance abuse histories to complete NCLEX-RN licensure examination. Therefore, it is of the utmost importance to:

1. Address such situations with the College of Nursing and the Board of Nursing as early as possible, and
2. Notify the College of Nursing Compliance Officer within 72 hours on any changes in conduct records, including arrests, convictions, changes to RN license status, or other activities that impact the background investigation or the ability to practice that occur at any time during their program of study.

**Other Nursing Pathways**

**Suncoast Nursing Accelerated Pathway**

[https://health.usf.edu/nursing/undergraduate/programs/accelerated-pathway](https://health.usf.edu/nursing/undergraduate/programs/accelerated-pathway)

The Suncoast Nursing Accelerated Pathway is a student-centered program creating access for registered nurse education in the USF System through a science accelerated degree pathway. The Suncoast Nursing Accelerated Pathway partnership between USF College of Nursing, USF St. Petersburg (USFSP), and USF Sarasota-Manatee (USFSM) provides a seamless transition for students to complete a Bachelor of Science degree in Biology and a Bachelor of Science degree in Nursing. This is a full-time limited access program, as mandated by the state, and is structured sequentially. Admission is competitive.

Information sessions are conducted at USFSP and USFSM throughout the year, with the application process taking place in Fall of the sophomore year.

**Admission Requirements:**

- Full-time, matriculated student with a major in Biology at USF St. Petersburg or USF Sarasota-Manatee.
- Minimum 3.20 cumulative GPA on all undergraduate coursework.
- Completed application to the College of Nursing prior to the published deadline for the intended term of entry.
- If selected, participation in a formal interview with respective faculty from USF College of Nursing and USFSP or USFSM Department of Biology.

Please note: Meeting minimum requirements does not guarantee admission, as admission is competitive for limited access programs.

**USF/HCC Concurrent**

[https://health.usf.edu/nursing/undergraduate/programs/asn-to-bs](https://health.usf.edu/nursing/undergraduate/programs/asn-to-bs)

The University of South Florida (USF) & Hillsborough Community College (HCC) Concurrent Program allows students to enroll in select RN to B.S. courses at USF as a non-degree student (beginning in Spring of Year 1) while completing the ASN degree at HCC. Students will remain in non-degree status at USF until awarded the ASN. After graduating from HCC’s ASN program, students will be eligible to sit for the national licensure exam for registered nurses (NCLEX-RN).

**Criteria for Admissions:**

- Students must complete the steps for admission as a degree seeking student at HCC before they may be considered for the Concurrent Program.
- Students must have a cumulative GPA of at least a 3.0.
- Students must meet the definition of residency at each institution to qualify for in-state tuition.
- Student must be admitted into HCC’s nursing program.
- Students must be admitted as non-degree seeking students into USF and be eligible for admission as a degree seeking student into USF’s College of Nursing upon completion of the ASN portion of the Concurrent Program.
As a condition of progression in the USF/HCC Concurrent program, students must meet the following requirements:

- Maintain active enrollment status at both institutions.
- Comply with your designated plan of study.*
- Have a minimum overall GPA of 3.0 for admissions into the concurrent program.
- Comply with each institution’s policy regarding progression & compliance.
- Acquire a valid RN license within 3 months of completion of the ASN.**

* If students are not successful in following the plan of study, they can no longer remain in the concurrent program.
** If you are not able to obtain a valid RN license within 3 months of completing the ASN, you will be unable to take the remaining RN to B.S. courses at USF until you have successfully passed. Students who are off plan for the USF/HCC Concurrent program will no longer be able to remain in the Concurrent Program but can apply for the RN to B.S. program at USF through Undergraduate Admissions and the College of Nursing.

Nursing Honors Program B.S. to PhD Accelerated Pathway

The Honors College has partnered with the USF College of Nursing to provide first-time in college freshmen with an accelerated pathway into the USF College of Nursing PhD program. This program allows Pre-nursing Honors College students the opportunity to received admission to the College of Nursing and complete a PhD degree in seven years, provided that the student continues to meet all the benchmarks of the program, including a successful interview with the College of Nursing. This is a full-time limited access program, as mandated by the state, and is structured sequentially. Admission is competitive.

Criteria for Admission:

- Admission to the University of South Florida's (Tampa Campus) Honors College as a pre-nursing student.
- Minimum SAT score of 1360 or a combined ACT of 29.
- Minimum 3.8+ weighted high school GPA, as calculated by USF Office of Undergraduate Admissions.
- U.S. Citizenship or permanent residency (this program does not admit international applicants).

As a condition of progression in the Nursing Honors Program B.S. to PhD Accelerated Pathway program, students must meet the following requirements:

- Maintenance of a 3.6 GPA with grades of B or better in all state-mandated nursing prerequisites.
- Adherence to approved program plan of study.
- Completion of B.S. degree and successful Florida RN licensure by the start of the PhD program.

Baccalaureate-Level Degree Programs

Global Pathways
https://www.usf.edu/gcp/students/index.aspx

A Global Pathway is an undergraduate major or degree program that has significant global content. Global Pathways provide students with the opportunity to practice and apply global competencies through the major or degree program. The following programs are designated as Global Pathway Programs:

Nursing – B.S. Upper Division Major
https://health.usf.edu/nursing/undergraduate/programs/upper-division
Bachelor of Science

Accelerated Second Bachelor’s Degree
https://health.usf.edu/nursing/undergraduate/programs/second-degree

The Accelerated Second Bachelor's Degree Major (SBN) is for students who have a baccalaureate degree in another field and a minimum undergraduate GPA of 3.00. Students with a Bachelor's degree in a non-nursing field and who have completed all the nursing pre-requisite courses may be considered for admission into the Accelerated Second Bachelor's Degree major; 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.

RN to Bachelor’s (Online)
https://health.usf.edu/nursing/undergraduate/programs/rn-to-bs

The RN to Bachelor’s major (NRN) is for students currently licensed to practice as a Registered Nurse. The RN to B.S. option allows an RN with a diploma or an associate's degree in nursing from a regionally accredited school to earn a Bachelor of Science degree with a major in nursing.

Suncoast Nursing Accelerated Pathway
https://health.usf.edu/nursing/undergraduate/programs/accelerated-pathway

The Suncoast Nursing Accelerated Pathway is a student-centered program creating access for registered nurse education in the USF System through a science accelerated degree pathway. The Suncoast Nursing Accelerated Pathway partnership between USF College of Nursing, USF St. Petersburg, and USF Sarasota-Manatee provides a seamless transition for students to complete a Bachelor of Science degree in Biology and a Bachelor of Science degree with a major in nursing. This is a full-time limited access program, as mandated by the state, and is structured sequentially. Admission is competitive.

Upper Division
https://health.usf.edu/nursing/undergraduate/programs/upper-division

The Upper Division Major (NUR) is our traditional baccalaureate nursing major for students who have completed nursing prerequisite courses and university general education requirements. This is a full-time limited access program, as mandated by the state, and is structured sequentially. Admission is competitive.

USF/HCC Concurrent
https://health.usf.edu/nursing/undergraduate/programs/asn-to-bs

The University of South Florida (USF) & Hillsborough Community College (HCC) Concurrent Program allows students to enroll in select RN to BS courses at USF as a non-degree student while completing the ASN degree at HCC. Students will remain in non-degree status at USF until awarded the ASN. After graduating from HCC’S ASN program, students will be eligible to sit for the national licensure exam for registered nurses (NCLEX-RN).

Veteran to Bachelor’s (V-CARE)
https://health.usf.edu/nursing/undergraduate/programs/vbsn

The Veteran to Bachelor’s (V-CARE) program allows service members and veterans with medical training experience as medics and corpsmen the opportunity to receive a Bachelor’s of science degree with a major in nursing. The V-CARE program is typically completed in four consecutive semesters (after prerequisites, Foreign Language, and General Education requirements. Graduates may then take the National Council Licensure Examination (NCLEX) to earn their RN license. Prerequisites can be completed at any regionally accredited college/university with completion of nursing coursework at the Tampa campus. The V-CARE program is a full-time limited access program, as mandated by the state, and is structured sequentially. Admission is competitive.

Nursing Honors Program BS to PhD Accelerated Pathway

The Honors College has partnered with the USF College of Nursing to provide first-time in college freshmen with an accelerated pathway into the USF College of Nursing PhD program. This program allows Pre-Nursing Honors College students the opportunity to received admission to the College of Nursing and complete a PhD degree in seven years, provided that the student continues to meet all the benchmarks of the program, including a successful interview with the College of Nursing. This is a full-time limited access program, as mandated by the state, and is structured sequentially. Admission is competitive.
Undergraduate Advising Information

Advising for the College of Nursing is available for Pre-Nursing and admitted nursing students at the USF Health Wellness, Engagement, Leadership & Learning (W.E.L.L.) building (MDA) location at 12901 Bruce B. Downs Blvd., MDC 22, Tampa, FL 33612-4766. See https://health.usf.edu/nursing/advising/undergraduate for more information.

The College of Nursing Student Affairs Office is open from 8:00 AM to 5:00 PM weekdays and closed on University holidays. You may schedule an appointment to meet with an advisor by scheduling online via https://ustweb3.usf.edu/appointments/StudentSignon.asp or by contacting the Student Affairs Office at (813) 974-2191. During peak registration times walk-in advising may be offered, check with your advisor for availability of walk-in advising.

In order to schedule a meeting with an advisor in this college, please use escheduler.

Contact Information

College of Nursing Advising
MDA 1002 in The WELL (see map https://health.usf.edu/~/media/Images/Nursing/Advising/USF%20Health%20The%20WELL.ashx?la=en)

Office Hours: Monday - Friday, 8:00a.m. - 5:00p.m.
(813) 974-2191
nurstudent@health.usf.edu

You may schedule an appointment to meet with an advisor by scheduling online via https://usfweb3.usf.edu/appointments/StudentSignon.asp or by contacting the Student Affairs Office at (813) 974-2191. During peak registration times walk-in advising may be offered, check with your advisor for availability of walk-in advising.

Prospective Student Advising: For more information, see https://health.usf.edu/nursing/advising/prospective

Undergraduate Students can schedule an appointment with an adviser by using the eScheduler for current USF Students (see http://usfweb.usf.edu/escheduler/student.aspx Login in required).

Interested prospective students or Non-USF students who do not have a USF ID number: Schedule appointments using the NonStudent eScheduler at http://usfweb.usf.edu/escheduler/NonStudentLogin.aspx.
The Veteran to bachelor's (V-CARE) program allows service members and veterans with medical training experience as medics and corpsmen the opportunity to receive a Bachelor's of science degree with a major in nursing. The V-CARE program is typically completed in four consecutive semesters (after prerequisites, Foreign Language, and General Education requirements. Graduates may then take the National Council Licensure Examination (NCLEX) to earn their RN license. Prerequisites can be completed at any regionally accredited college/university with completion of nursing coursework at the Tampa campus.

LIMITED ACCESS

This major has additional admissions requirements as listed in this section.

This is a full-time limited access program, as mandated by the state, and is structured sequentially. Admission is competitive.

Admission Requirements

- Admission to the University of South Florida, Tampa campus, as a degree seeking undergraduate student.
- Completed application to the College of Nursing prior to the published deadline for the intended term of entry.
- Applicants must have U.S. Army Medic, U.S. Air Force Medic, or U.S. Navy Corpsman training and experience to be a candidate for the V-CARE major.
- Minimum 3.0 cumulative GPA on all undergraduate coursework.
- Completion of the Nursing prerequisite courses by the published application deadline for the intended term of entry.
  - Students who do not have all prerequisite courses completed by the intended term of entry may be eligible for conditional admission.
  - Note: Any outstanding Nursing prerequisite courses must be completed by the program start date, with a C or better, while maintaining a cumulative GPA greater than or equal to 3.0.
- Completion of English Composition I, English Composition II and State General Education Mathematics requirement by the published application deadline.
- If selected, a formal interview with College of Nursing faculty.
- Completion of the University's foreign language entrance requirement (FLENT) and University General Education requirements.
- Submission of a professional resume.

STATE MANDATED COMMON COURSE PREREQUISITES

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 while maintaining a cumulative GPA equal to or greater than 3.0.

The University's Enhanced 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 Enhanced 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 VCARE major. 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 BSC X085/X085L pr BSC X093C or BSC X093/X093L (4)
- BSC X086C Human Anatomy & Physiology II or BSC X086/X086L or BSC X094C or BSC X094/X094L (4)
- CHM XXXX or BSC XXXX or PHY XXXX or PCB XXXX or BCH XXXX (3)
- DEP X004 Human Growth & Development or DEP X054 or DEP X000 or DEP X414 (3)
- HUN X201 Human Nutrition or NUR X192 (3)
- MCB X010C Microbiology or MCB X010/X010L, MCB X013C or MCB X000/X000L or MCB X004/X004L (4)
- PSY XXXX or SYG XXXX or SOP XXXX (3)
- STA X014 Statistics or STA X023 or STA X122 (3)

**NOTE:** Epidemiology (3 credits) is recommended but not required.

**REQUIREMENTS FOR THE MAJOR IN NURSING: VCARE**

**TOTAL MAJOR HOURS: 68**

**MAJOR REQUIREMENTS FOR THE B.S. DEGREE:**

**MAJOR CORE (56 HOURS)**

- NUR 3066L Health Assessment, Wellness, and Prevention Across the Life Span Lab
- NUR 3081 Bridge to Professional Nursing
- NUR 3081L Bridge to Professional Nursing Practice
- NUR 3125 Pathophysiology for Nursing Practice
- NUR 3145 Pharmacology in Nursing Practice
- NUR 3225 Complex Health Nursing I
- NUR 3225L Complex Health Nursing I Clinical
- NUR 4165 Evidence-Based Practice
- NUR 4227 Complex Health Nursing II
- NUR 4227L Complex Health Nursing II Clinical
- NUR 4285 Healthy Aging: Nursing Care of Older Adults
- NUR 4467 Nursing Care of Women, Children, and Families
- NUR 4467L Nursing Care of Women, Children, and Families Clinical
- NUR 4535 Psychiatric/Mental Health Nursing
- NUR 4535L Psychiatric/Mental Health Nursing Clinical
COLLEGE OF NURSING

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- NUR 4635 Public Health Nursing
- NUR 4635L Public Health Nursing Clinical
- NUR 4827 Role Transition and Leadership in Nursing
- NUR 4888 Coordination of Care in Nursing
- NUR 4948L Preceptorship

COURSE GRADE REQUIREMENT

All Nursing courses must be passed with a C or better in didactic and an S in clinical.

GRADING REQUIREMENT

Please refer to the USF College of Nursing Student Handbook for grade and progression requirements.

RESEARCH OPPORTUNITIES

All undergraduate students in any degree program can participate in undergraduate research. There are a number of options to receive academic credit for a mentored research experience and to have the experience show on the official transcript. Students who wish to enroll in an undergraduate research course should consult with their academic advisor to understand how the credit will apply towards the degree requirements. If no credit is needed, students may be eligible to enroll in the 0-credit IDS 2912, IDS 4914 or IDH 4910 courses. These courses will not impact degree credits or GPA but will show on an official transcript and document the experience. The Office of Undergraduate Research will assist students in understanding the various course options.

NURSING: V-CARE FACULTY


B.S. - NURSING: ACCELERATED SECOND BACHELOR'S DEGREE (SBN)

(CIP = 51.3801)
TOTAL DEGREE HOURS: 62

https://health.usf.edu/nursing/undergraduate/programs/second-degree

The Accelerated Second Bachelor's Degree (SBN) major 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 prerequisite courses may be considered for admission into the Accelerated Second Bachelor's Degree major; upon completion, students will earn a second bachelor's degree.

LIMITED ACCESS

THIS MAJOR HAS ADDITIONAL ADMISSIONS REQUIREMENTS AS LISTED IN THIS SECTION.

This is a full-time, limited access program, as mandated by the State, and is structured sequentially. Admission is competitive. Any student who applies to the undergraduate program in the College of Nursing is initially coded as "Pre-Nursing" prior to official acceptance to the College of Nursing.
Admissions Requirements:

- Admission to the University of South Florida, as a degree seeking undergraduate student.
- Completed of the first Bachelor’s degree from a regionally accredited institution by the program start date for the term of entry.
- Minimum 3.0 cumulative GPA on all undergraduate work.
- Completion of at least seven of the eight Nursing prerequisite courses by the published deadline for the intended term of entry
  - Note: Any outstanding Nursing prerequisites must be completed by the program start date, with a minimum grade of C or better, while maintaining a cumulative GPA greater than or equal to 3.0.
- If selected, a formal interview with College of Nursing faculty.

If a student receives a grade of less than C in any two prerequisite courses while declared as pre-Nursing, the student will be required to select another major at the University of South Florida. Grade forgiveness will not apply the mandated requirement of changing the major. In addition, if a student does not meet the minimum GPA to be eligible to apply for admission following 60 completed hours and all prerequisite courses attempted, the student will be required to select another major at the University of South Florida.

STATE MANDATED COMMON COURSE PREREQUISITES

The State Mandated Nursing common prerequisites are required to be completed before the published application deadline for the intended term of entry. A grade of “C” or better is required while maintaining a cumulative GPA equal to or greater than 3.0.

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 or BSC X085/X085L or BSC X093C or BSC X093/X093L
- BSC 086C or BSC X086/X086L or BSC X094C or BSC X094/X094L
- CHM XXXX or BCH XXXX or BSC XXXX or PCB XXXX or PHY XXXX
- DEP X004 or DEP X054 or DEP X000 or DEP X414
- HUN X201 or NUR X192
- MCB X0101C or MCB X010/X010L or MCB X013C or MCB X000/X000L or MCB X004/X004L
- PSY XXXX or SOP XXXX or SYB XXXX
- STA X014 or STA X023 or STA X122

FOR ALL MAJORS: Students are strongly encouraged to select required lower division electives that will enhance their general education coursework and that will support their intended baccalaureate degree program. Students should consult with an academic advisor in their major degree area.

NOTE: Epidemiology (3 credits) is recommended but not required.
REQUIREMENTS FOR THE MAJOR IN NURSING: ACCELERATED SECOND BACHELOR'S DEGREE

TOTAL MAJOR HOURS: 62

MAJOR REQUIREMENTS FOR THE B.S. DEGREE:

MAJOR CORE (62 HOURS)

- NUR 3026 Patient Centered Care: Essentials of the Nursing Practice
- NUR 3026L Patient Centered Care: Essentials of the Nursing Practice Clinical
- NUR 3027L Patient Centered Care: Essentials of Nursing Practice Lab
- NUR 3066 Health Assessment, Wellness, and Prevention Across the Life Span
- NUR 3066L Health Assessment, Wellness, and Prevention Across the Life Span Lab
- NUR 3125 Pathophysiology for Nursing Practice
- NUR 3145 Pharmacology in Nursing Practice
- NUR 3225 Complex Health Nursing I
- NUR 3225L Complex Health Nursing Clinical I
- NUR 3825 Introduction to the Profession of Nursing
- NUR 4165 Evidence-Based Practice
- NUR 4227 Complex Health Nursing II
- NUR 4227L Complex Health Nursing II Clinical
- NUR 4467 Nursing Care of Women, Children, and Families
- NUR 4467L Nursing Care of Women, Children, and Families Clinical
- NUR 4535 Psychiatric/Mental Health Nursing
- NUR 4535L Psychiatric/Mental Health Nursing Clinical
- NUR 4635 Public Health Nursing
- NUR 4635L Public Health Nursing Clinical
- NUR 4827 Role Transition and Leadership in Nursing
- NUR 4888 Coordination of Care in Nursing
- NUR 4948L Preceptorship

GPA REQUIREMENTS

Minimum 3.0 cumulative GPA on all undergraduate work.

COURSE GRADE REQUIREMENT

All Nursing courses must be passed with a C or better in didactic and an S in clinical.
GRADING REQUIREMENT

All Nursing courses must be passed with a C or better in didactic and an S in clinical.

Please refer to the USF College of Nursing Student Handbook for grade and progression requirements.

Accelerated Second Bachelor's Degree major students who receive a grade below a C in didactic or an S in clinical of any required nursing course will not be permitted to continue in the accelerated major. If allowed to continue in the program, the student must progress through the Upper Division major, providing space and appropriate clinical placement is available.

OTHER REQUIREMENTS

RESEARCH OPPORTUNITIES

All undergraduate students in any degree program can participate in undergraduate research. There are a number of options to receive academic credit for a mentored research experience and to have the experience show on the official transcript. Students who wish to enroll in an undergraduate research course should consult with their academic advisor to understand how the credit will apply towards the degree requirements. If no credit is needed, students may be eligible to enroll in the 0-credit IDS 2912, IDS 4914 or IDH 4910 courses. These courses will not impact degree credits or GPA but will show on an official transcript and document the experience. The Office of Undergraduate Research will assist students in understanding the various course options.

NURSING: ACCELERATED SECOND BACHELOR'S DEGREE FACULTY


B.S. - NURSING: RN TO BACHELOR’S (NRN)

(CIP = 51.3801 TRACK 1 OF 2)
TOTAL DEGREE HOURS: 30

https://health.usf.edu/nursing/undergraduate/programs/rn-to-bs

The RN to BS (NRN) major is for students currently licensed to practice as a Registered Nurse. The RN to BS option allows an RN with a diploma or an associate's degree in nursing from a regionally accredited school to earn a Bachelor of Science degree with a major in Nursing.
LIMITED ACCESS

THIS MAJOR HAS ADDITIONAL ADMISSIONS REQUIREMENTS AS LISTED IN THIS SECTION.

The College of Nursing is a limited access program. Any student who applies to the undergraduate program in the College of Nursing is initially coded as "pre-nursing" prior to official acceptance to the College of Nursing.

Admissions Requirements:

- Admission to the University of South Florida (Tampa Campus) as a degree seeking undergraduate student.
- Completed application to the College of Nursing prior to the published deadline for the intended term of entry.
- An overall GPA of 2.50 or higher on all undergraduate work (excluding Associate of Science Nursing courses).
- Associate Degree in Nursing from a regionally accredited institution. Nursing diplomas will be evaluated on a case by case basis.
- Must reside in the state of Florida with evidence of a current Florida RN licensure in good standing.
- Completion of the following pre-requisite courses by the application deadline for the intended term of entry with a minimum grade of "C" in each:
  - English Composition I (3) ENC 1101
  - English Composition II (3) ENC 1102

STATE MANDATED COMMON COURSE PREREQUISITES

The University's Enhanced 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 Enhanced 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 RN to Bachelor's major. 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 BSC X085/X085L or BSC X093C or BSC X093/X093L (4)
- BSC X086C Human Anatomy & Physiology II or BSC X086/X086L or BSC X094C or BSC X094/X094L (4)
- CHM XXXX or BSC XXXX or PHY XXXX or PCB XXXX or BCH XXXX (3)
- DEP X004 Human Growth & Development or DEP X054 or DEP X000 or DEP X414 (3)
- HUN X201 Human Nutrition or NUR X192 (3)
- MCB X010C Microbiology or MCB X010/X010L, MCB X013C or MCB X000/X000L or MCB X004/X004L (4)
- PSY XXXX or SYG XXXX or SOP XXXX (3)
- STA X014 Statistics or STA X023 or STA X122 (3)
FOR ALL MAJORS: Students are strongly encouraged to select required lower division electives that will enhance their general education coursework and that will support their intended baccalaureate degree program. Students should consult with an academic advisor in their major degree area.

NOTE: Epidemiology (3 credits) is recommended but not required.

REQUIREMENTS FOR THE MAJOR IN NURSING: RN TO BACHELOR'S

TOTAL MAJOR HOURS: 30

MAJOR REQUIREMENTS FOR THE B.S. DEGREE:

MAJOR CORE (15 HOURS)

- NUR 3805 Nursing as a Profession
- NUR 3078 Information Technology Skills for Nurses
- NUR 4895 Educational Role of the Nurse in Healthcare
- NUR 4828C Foundations of Nursing Healthcare Leadership & Management
- NUR 4169C Evidence-Based Practice for Baccalaureate Prepared Nurse
- NUR 4634C Population Health

MAJOR ELECTIVES (15 HOURS)

Students select one of three clusters during the second semester. The three clusters are Clinical Practice, Education, and Leadership. Students must complete at least two courses from the selected cluster. Remaining credits may be selected from any cluster. Please contact an academic advisor in Nursing for required cluster courses.

Cluster/Elective course availability will vary semester to semester and may include, and are not limited to:

- NSP 3147 Web-Based Education for Staff Development
- NSP 3640 Introduction to Military & Veteran Healthcare
- NSP 4880 Foundations of Healthcare QI & Patient Safety
- NSP 4148 Simulation for Nursing Practice
- NSP 4545 Substance Abuse Across the Lifespan
- NSP 4614 Preventative Cardiology for Healthcare Professionals
- NSP 4855 Skills for Nursing Staff Development Educator
- NUR 3678 Nursing Healthcare for Vulnerable Populations
- NUR 3826 Ethical/Legal Aspects of Nursing & Health Care
- NUR 4069 Health Assessment for Registered Nurses
- NUR 4128 Pathophysiology/Pharmacology
- NUR 4795 Cancer Symptom Management
- NUR 4850 Fundamentals of Healthcare Finance for Nurses and Nurse Leaders
- NUR 4935 Selected Topics in Nursing
- NUR 3678 Nursing Healthcare for Vulnerable Population
- NUR 4285 Healthy Aging: Nursing Care of Older Adults
• NSP 4614 Preventative Cardiology for Healthcare Professionals
• NUR 4888 Coordination of Care
• NUR 4935 Global Health
• NSP 3875 Digital Health

**GPA REQUIREMENTS**

Minimum 2.50 cumulative GPA on all undergraduate coursework.

**GRADING REQUIREMENT**

All Nursing courses must be passed with a C or better in didactic/lecture and an S in clinical.

**OTHER REQUIREMENTS**

All students must meet USF's residency and degree requirements.

**RESEARCH OPPORTUNITIES**

All undergraduate students in any degree program can participate in undergraduate research. There are a number of options to receive academic credit for a mentored research experience and to have the experience show on the official transcript. Students who wish to enroll in an undergraduate research course should consult with their academic advisor to understand how the credit will apply towards the degree requirements. If no credit is needed, students may be eligible to enroll in the 0-credit IDS 2912, IDS 4914 or IDH 4910 courses. These courses will not impact degree credits or GPA but will show on an official transcript and document the experience. The Office of Undergraduate Research will assist students in understanding the various course options.

**NURSING: RN TO BACHELOR'S FACULTY**

B.S. - NURSING: UPPER DIVISION (NUR)

(CIP = 51.3801)
TOTAL DEGREE HOURS: 120

https://health.usf.edu/nursing/undergraduate/programs/upper-division

Certified Global Pathway Program

The Upper Division major (NUR) is for traditional Baccalaureate nursing major for students who have completed all nursing prerequisite courses and university general education requirements.

This program has been certified as a Global Pathway. A Global Pathway is an undergraduate major or degree program that has significant global content and align with the goals of USF’s Quality Enhancement Plan, the Global Citizens Project. Global Pathways provide students with the opportunity to practice and apply global competencies through the major or degree program. Students in Global Pathway programs are well positioned to earn the Global Citizen Award and become eligible to apply for a study abroad scholarship offered by the Global Citizens Project.

LIMITED ACCESS

THIS MAJOR HAS ADDITIONAL ADMISSIONS REQUIREMENTS AS LISTED IN THIS SECTION.

This is a full-time limited access program, as mandated by the state, and is structured sequentially. Admission is competitive. 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.

C.A.R.E. (Creating Access to RN Education) Pathway sequence is a special pathway developed for the first time in college (FTIC) students. Requirements for consideration are a minimum 3.8 cumulative weighted high school grade point average and a combined score of at least 1360 on the SAT or a composite score of at least a 29 on the ACT.

To maintain C.A.R.E. status pre-nursing students must maintain a 3.60 GPA and a minimum grade of C (3.0 GPA) in all state mandated prerequisite courses.

Admissions Requirements:

- Admission to the University of South Florida, as a degree seeking undergraduate student.
- Completed application to the College of Nursing prior to the published deadline for the intended term of entry.
- Minimum 3.20 cumulative GPA on all undergraduate work.
- Completion of at least seven of the eight nursing pre-requisites course by published application deadline for the intended term of entry
  - Note: Any outstanding Nursing prerequisites must be completed by the program start date, with a C or better, while maintaining a cumulative GPA equal to or greater than 3.0.
- Completion of English Composition I, English Composition II, and State General Education Mathematics requirement by published application deadline.
- If selected, a formal interview with College of Nursing faculty.
- Completion of the University’s foreign language entrance requirement (FLENT) and University General Education requirement by the intended term of entry.

If a student receives a grade less than a C in any two prerequisite courses while declared as Pre-Nursing, the student will be required to select another major at the University of South Florida. Grade forgiveness will not apply to the mandated requirement of changing the major. In addition, if a student does not meet the minimum GPA requirement to be eligible to apply for admission following 60 completed hours and all prerequisite courses attempted, the student will be required to select another major at the University of South Florida.
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 while maintaining a cumulative GPA equal to or greater than 3.0.

The University’s Enhanced 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 Enhanced 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 major. 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 BSC X085/X085L or BSC X093C or BSC X093/X093L (4)
- BSC X086C Human Anatomy & Physiology II or BSC X086/X086L or BSC X094C or BSC X094/X094L (4)
- CHM XXXX or BSC XXXX or PHY XXXX or PCB XXXX or BCH XXXX (3)
- DEP X004 Human Growth & Development or DEP X054 or DEP X000 or DEP X414 (3)
- HUN X201 Human Nutrition or NUR X192 (3)
- MCB X010C Microbiology or MCB X010/X010L, MCB X013C or MCB X000/X000L or MCB X004/X004L (4)
- PSY XXXX or SYG XXXX or SOP XXXX (3)
- STA X014 Statistics or STA X023 or STA X122 (3)

FOR ALL MAJORS: Students are strongly encouraged to select required lower division electives that will enhance their general education coursework and that will support their intended baccalaureate degree program. Students should consult with an academic advisor in their major degree area.

NOTE: Epidemiology (3 credits) is recommended but not required.

REQUIREMENTS FOR THE MAJOR IN NURSING: UPPER DIVISION

TOTAL MAJOR HOURS: 68

MAJOR REQUIREMENTS FOR THE B.S. DEGREE:

MAJOR CORE (68 HOURS)

- NUR 3026 Patient Centered Care: Essentials of the Nursing Practice
- NUR 3026L Patient Centered Care: Essentials of the Nursing Practice Clinical
- NUR 3027L Patient Centered Care: Essentials of the Nursing Practice Lab
- NUR 3066 Health Assessment, Wellness, and Prevention Across the Life Span
- NUR 3066L Health Assessment, Wellness, and Prevention Across the Life Span Lab
- NUR 3125 Pathophysiology for Nursing Practice
- NUR 3145 Pharmacology in Nursing Practice
- NUR 3225 Complex Health Nursing I
- NUR 3225L Complex Health Nursing I Clinical
- NUR 3825 Introduction to the Profession of Nursing
- NUR 4165 Evidence-Based Practice
- NUR 4227 Complex Health Nursing II
- NUR 4227L Complex Health Nursing Clinical II
- NUR 4285 Healthy Aging: Nursing Care of Older Adults
- NUR 4467 Nursing Care of Women, Children, and Families
- NUR 4467L Nursing Care of Women, Children, and Families Clinical
- NUR 4535 Psychiatric/Mental Health Nursing
- NUR 4535L Psychiatric/Mental Health Nursing Clinical
- NUR 4635 Public Health Nursing
- NUR 4635L Public Health Nursing Clinical
- NUR 4827 Role Transition and Leadership in Nursing
- NUR 4888 Coordination of Care in Nursing
- NUR 4937 Nursing Seminar
- NUR 4948L Preceptorship

**GPA REQUIREMENTS**

Minimum 3.20 cumulative GPA on all undergraduate work. Required prerequisite course grades may be weighted.

**COURSE GRADE REQUIREMENT**

All Nursing courses must be passed with a C or better in didactic and an S in clinical.

**GRADING REQUIREMENT**

Please refer to the USF College of Nursing Student Handbook for grade and progression requirements.

**RESEARCH OPPORTUNITIES**

All undergraduate students in any degree program can participate in undergraduate research. There are a number of options to receive academic credit for a mentored research experience and to have the experience show on the official transcript. Students who wish to enroll in an undergraduate research course should consult with their academic advisor to understand how the credit will apply towards the degree requirements. If no credit is needed, students may be eligible to enroll in the 0-credit IDS 2912, IDS 4914 or IDH 4910 courses. These courses will not impact degree credits or GPA but will show on an official transcript and document the experience. The Office of Undergraduate Research will assist students in understanding the various course options.
NURSING: UPPER DIVISION FACULTY

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Contact Information

College of Public Health
(813) 974-3623
https://health.usf.edu/publichealth/

Mailing Address:
13201 Bruce B. Downs Blvd, MDC 56
Tampa, FL 33612

Physical Address:
3010 USF Banyan Circle
Tampa, FL 33612

About the College

With selfless dedication, we promise to use our transformational research and interdisciplinary approach to passionately solve problems and create conditions that allow every person the universal right to health and well-being. Our Practice is Our Passion. Degree programs are offered in multiple platforms to accommodate student needs. On-campus courses are available throughout the day and evening. The College offers almost 100 courses online, including 6 complete degree programs. COPH students embrace opportunities to see public health in practice in a variety of global settings. Through study abroad courses, international field experiences, and other opportunities, students annually travel to more than 20 countries, including Panama, Belize, Uganda, Malaysia and Ecuador among others.

Mission, Vision, Values

Mission

Our collective mission is to provide excellence in public health education, leadership, advocacy, research and service; to nurture and motivate our students; and to deliver enhanced health and well-being to all humankind through collaborative partnerships with researchers, educators, health professionals and administrators.

Vision

Our vision is to be the exemplary catalyst for public health innovation and advancement of the profession, locally and globally.

COPH core values are:

- Social responsibility
- Social justice
- Multidisciplinary approach
- Global perspective
- Altruism
- Diversity and inclusiveness
- Leadership
- Academic excellence
Accreditation

The College of Public Health is accredited by the Council on Education in Public Health (CEPH), [http://ceph.org/](http://ceph.org/). CEPH (800 Eye Street, NW, Suite 202, Washington, D.C. 20001-3710) is an independent agency that is recognized by the US Department of Education to accredit schools of public health. The College received notice dated October 20, 2011 that it has been reaccredited for seven years, through December 31, 2018; this is the maximum possible number of years attainable in a reaccreditation cycle.

College-Level Requirements

Admission Requirements

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.

**Declaration of Major:** All students must have an overall and USF GPA of 2.0 in order to declare their major in public health. Majors and minors will be updated in your records within 2-3 business days.

**Declaration of Minor:** It is advised to declare your minor by 90 credit hours and to speak with your Academic Advisor about this addition and the excess credit hours policy. Please note, there should be no overlap (“double-dipping”) between a major and a minor. Courses can only be used for one.

**Non Tampa Campus Students:** Please be advised that if your home campus is not Tampa, you cannot declare into the Public Health major, you must first be accepted to USF Tampa campus prior to declaring your major. To change campus you must complete the process and form for a USF Change of Institution (Campus) at [http://ugs.usf.edu/system/change-of-institution/](http://ugs.usf.edu/system/change-of-institution/).

Graduation Requirements

- Complete at least 120 accepted semester hours with a minimum USF cumulative GPA and overall GPA of 2.0.
- Complete the Foreign Language Entrance Requirement.
- Students must satisfy State Communication Requirement and State Computation Requirement. 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 State Communication Requirement (formerly known as Gordon Rule Writing) and State Computation Requirement (formerly known as Gordon Rule Math).
- Complete the General Education Core and State Communication and Computation Requirement of 36 hours.
- Complete all major course requirements.
- None of the coursework taken for the major may be taken as an S/U grade, unless S/U is the only grading option available.
- The Audit option is available only during the first five (5) days of classes.
- Complete a minimum of 42 hours of upper-level courses (numbered 3000 or above).
- Thirty (30) of the last 60 semester hours must be completed at USF to fulfill the residency requirement.
Global Pathways
https://www.usf.edu/gcp/students/index.aspx

A Global Pathway is an undergraduate major or degree program that has significant global content. Global Pathways provide students with the opportunity to practice and apply global competencies through the major or degree program. The following programs are designated as Global Pathway Programs:

Public Health
https://health.usf.edu/publichealth/

Bachelor of Science

Bachelor's of Science in Public Health
https://health.usf.edu/publichealth/undergrad/academic-programs

USF offers the first Bachelor’s in Public Health housed in an accredited College of Public Health in Florida. The BS in Public Health provides student-centered courses required for entry-level public health jobs found in government agencies, health corporations, community non-profit organizations and health care facilities.

Accelerated Programs

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 the Fast Track MPH/MSPH for USF Honors Students.

Minors

The College of Public Health offers minors in General Public Health, Environmental Health, Infection Control, Community Engaged Homeland Security & Emergency Management, and Nutrition. Each minor will prepare students more efficiently to implement their public health education into specific fields. For more information, see https://health.usf.edu/publichealth/undergrad/academic-programs

General Public Health

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.

Community Engaged Homeland Security & Emergency Management

The Community Engaged Homeland Security and Emergency Management minor provides a broad foundation of homeland security and emergency management coursework for individuals interested in pursuing a career in local, state or national government and military careers.

Environmental Health

The minor provides students with a broad range of courses necessary to pursue an advanced degree in the field of Environmental and Occupational Health and Safety or to seek entry-level employment in a related field and is preparatory for careers in: environmental science, industrial hygiene, toxicology, risk assessment, and related health sciences careers.

Infection Control

The Infection Control minor is based on the competencies in the National Board Certification Exam for infection control. The minor provides a foundation of infection prevention and control principles for individuals interested in pursuing a career in infection prevention and control at a healthcare facility or alternate setting; or those who need this knowledge base to pursue opportunities at a local, state or national public health department; a governmental agency; an academic and/or research institution; or any other applicable arena.
Nutrition science is both personally and professionally relevant, emphasizing health promotion, optimal human performance, disease prevention, quality of life and longevity. Career opportunities that are complemented by a nutrition minor include public health, health sciences, food technology, psychology, gerontology, social work, health promotion and communication, with potential employment in the public and/or private sector.

**Undergraduate Advising Information**

**Contact Information**

Undergraduate Advising  
College of Public Health  
3010 USF Banyan Circle  
Tampa, FL 33612  
(813) 974-4633  
UG-PublicHealthAdvising@health.usf.edu  
[https://health.usf.edu/publichealth/undergrad/advising](https://health.usf.edu/publichealth/undergrad/advising)

The Advising team at the USF College of Public Health provides guidance on academic policies, requirements, and processes. Just as each public health student is unique, so should each degree plan. Advising is determined to working alongside students to design individualized plans while providing compassionate guidance through the journey of Public Health education.

**Undergraduate Students** can schedule an appointment with an adviser by using the eScheduler for current USF Students (see [http://usfweb.usf.edu/escheduler/student.aspx](http://usfweb.usf.edu/escheduler/student.aspx) Login in required).

**Interested prospective students or Non USF students who do not have a USF ID number:** Schedule appointments using the NonStudent eScheduler at [http://usfweb.usf.edu/escheduler/NonStudentlogin.aspx](http://usfweb.usf.edu/escheduler/NonStudentlogin.aspx).
## B.S. - PUBLIC HEALTH (PUB)

(CIP = 51.2201)

**TOTAL DEGREE HOURS: 120**

[http://health.usf.edu/publichealth/undergrad/academic-programs.htm](http://health.usf.edu/publichealth/undergrad/academic-programs.htm)

### Certified Global Pathway Program

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.

### STATE MANDATED COMMON COURSE PREREQUISITES

Students desiring to transfer to USF should complete an A.A. degree at a Florida College System institution. If students transfer with fewer than 60 semester hours of acceptable credit, the students must meet the University's entering freshman requirements including ACT or SAT test scores, GPA, and course requirements. Transfer students are also required to comply with the immunization, foreign language, and continuous enrollment policies of the university.

**NOTE:** The University of South Florida B.S. in Public Health does not require any common prerequisites.

### REQUIREMENTS FOR THE MAJOR IN PUBLIC HEALTH

**TOTAL MAJOR HOURS: 54**

### MAJOR REQUIREMENTS FOR THE B.S. DEGREE:

#### MAJOR CORE (30 HOURS)

- HSC 4211 Health, Behavior and Society
- HSC 4551 Survey of Human Diseases
- HSC 4624 Foundations of Global Health
- HSC 4630 Understanding U.S. Health Care
- PHC 3302 Introduction to Environmental & Occupational Health
- PHC 4030 Introduction to Epidemiology
- PHC 4069 Biostatistics in Society
- PHC 4101 Overview of Public Health Programs and Policies
- PHC 4117 Workforce & Leadership Development
- PHC 4464 Introduction to Health Disparities & Social Determinants

#### MAJOR ELECTIVES (24 HOURS)

Skills Courses (12 credit hours)

- HSC 4631 Critical Issues in Public Health*
- PHC 4720 Foundation to Professional Writing in Public Health
- PHC 4755 Foundations of Evaluation and Research in Public Health
• Pick one course:
  o PHC 4140 Introduction to Public Health Geographic Information Systems
  o PHC 4931 Health Care Ethics
  o PHC 4942 Public Health Field Seminar
  o HSC 4537 Medical Terminology

Specialization Electives (12 credit hours)
Students may choose (but are not required) an area of specialization and take 12 credit hours from that chosen area:

NUTRITION
• HSC 4573 Foundations of Food Safety
• HUN 3126 Food and Culture
• HUN 3272 Sports Nutrition
• HUN 3296 Nutrition and Disease

INFECTION CONTROL
• HSC 4504 Foundations of Public Health Immunology
• HSC 4573 Foundations of Food Safety
• PHC 4031 Emerging Infectious Diseases
• PHC 4032 Foundations of Infection Control

HEALTH EDUCATION
• PHC 4141 Intervention Program Planning and Management
• PHC 4501 Health Education Theory and Behavior
• PHC 4582 Health Education Methods and Strategies
• Select one course from the following list:
  o HSC 4172 Women's Health: A Public Health Perspective
  o HSC 4579 Foundations of Maternal and Child Health

ENVIRONMENTAL AND OCCUPATIONAL HEALTH
• HSC 3503 Principles of Toxicology
• HSC 4213 Environmental and Occupational Risk Analysis
• HSC 4430 Occupational Health and Safety
• PHC 3320 Environmental Health Science

GLOBAL HEALTH
• PHC 4188 Public Health Emergencies in Large Populations
• PHC 4234 Public and Private Continuity Planning for Emergencies
• PHC 4375 Community Participation in Homeland Security
• PHC 4376 Disaster by Design: Exercise Development for Homeland Security Professionals
Lower-Level Public Health Electives (Choose up to 2 courses)

The following lower-level courses are not required for the major, but may be taken and applied toward the total degree hours requirement (120 hours).

- 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
- HUN 2201 Nutrition
- PHC 2100 Introduction to Public Health

GPA REQUIREMENTS

Maintain a major GPA of 2.0 in USF coursework.

GRADING REQUIREMENT

None of the coursework taken in the student's major may be taken as an S/U grade, unless S/U is the only grading option. Coursework fulfilling the State Communication Requirement (formerly known as Gordon Rule Writing) and State Computation Requirement (formerly known as Gordon Rule Math) and General Education requirements may not be taken as S/U.

The Audit option is available only during the first 5 days of classes.

Grades of D+ or lower are not acceptable in the major.

RESIDENCY REQUIREMENT

Thirty (30) of the last 60 semester hours must be completed at USF to fulfill the residency requirement.

RESEARCH OPPORTUNITIES

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.

OTHER INFORMATION

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.

ADVISING INFORMATION

Physical Address: 13201 Bruce B. Down Blvd, Tampa, FL 33612-3805; Mail point - MDC 56
Phone: (813) 974-4633 toll free 1-888-USF-COPH.
Office Hours: 8am - 5pm, Monday through Friday
Contact Email: UG-PublicHealthAdvising@health.usf.edu
Web Address: http://health.usf.edu/publichealth/academicaffairs/registration/undergraduate.html

Declaration of Major
http://health.usf.edu/publichealth/undergrad/continuing-students.htm

PUBLIC HEALTH FACULTY

MINOR IN COMMUNITY ENGAGED HOMELAND SECURITY & EMERGENCY MANAGEMENT (HSE)

TOTAL MINOR HOURS: 15

http://health.usf.edu/publichealth/undergrad/academic-programs.htm

The Community Engaged Homeland Security and Emergency Management minor provides a broad foundation of homeland security and emergency management coursework for individual interested in pursuit of a career in local, state or national government and military careers.

REQUIREMENTS FOR THE MINOR IN COMMUNITY ENGAGED HOMELAND SECURITY & EMERGENCY MANAGEMENT

MINOR CORE (15 HOURS)

- PHC 4188 Public Health Emergencies in Large Populations
- PHC 4234 Public and Private Continuity Planning for Emergencies
- PHC 4250 Crisis in Leadership Disasters
- PHC 4375 Community Participation in Homeland Security
- PHC 4376 Disaster by Design: Exercise Development for Homeland Security Professionals

No courses may be applied toward both a major and a minor.

GPA REQUIREMENTS

A minimum average 2.0 GPA is required in all of the required courses for the minor.

GRADING REQUIREMENT

A minimum grade of C- for all required courses.

OTHER INFORMATION

Declaration of Minor: http://health.usf.edu/publichealth/undergrad/continuing-students.htm

ADVISING INFORMATION

It is highly recommended that students meet with an advisor in the College of Public Health early to verify coursework for the minor.

For additional information about the minor, please contact:

Email: UG-PublicHealthAdvising@health.usf.edu, Phone: (813) 974-4633

MINOR IN ENVIRONMENTAL HEALTH (EVH)

TOTAL MINOR HOURS: 15

http://health.usf.edu/publichealth/undergrad/academic-programs.htm

The minor provides students with a broad range of courses necessary to pursue an advanced degree in the field of Environmental and Occupational Health and Safety or to seek entry-level employment in a related field and is preparatory for careers in: environmental science, industrial hygiene, toxicology, risk assessment, and related health sciences careers.
REQUIREMENTS FOR THE MINOR IN ENVIRONMENTAL HEALTH

It is recommended students follow the sequence of courses listed below. These courses will give students a broad overview of environmental and occupational health concepts.

MINOR CORE (15 HOURS)

- HSC 3503 Principles of Toxicology
- HSC 4213 Environmental and Occupational Risk Analysis
- HSC 4430 Occupational Health and Safety
- PHC 3302 Introduction to Environmental and Occupational Health
- PHC 3320 Environmental Health Science

No courses may be applied toward both a major and a minor.

GPA REQUIREMENTS

A minimum average 2.0 GPA is required for all courses required for the minor.

COURSE GRADE REQUIREMENT

A minimum grade of C- for all required courses.

OTHER INFORMATION

Declaration of Minor: http://health.usf.edu/publichealth/undergrad/continuing-students.htm

ADVISING INFORMATION

It is highly recommended that students meet with an advisor in the College of Public Health early to verify coursework for the minor.

For additional information about the minor, please contact:

Email: UG-PublicHealthAdvising@health.usf.edu, Phone: (813) 974-4633

MINOR IN GLOBAL COMMUNICABLE DISEASE (GCD)

TOTAL MINOR HOURS: 15

https://documents.health.usf.edu/display/COPH/Minor---Global+Communicable+Diseases

The Global Communicable Disease minor provides a broad foundation of global health with a focus on communicable/infectious diseases for individuals interested in pursuing a career at an academic and/or research institution, or in local, state or national government, military or in the global arena.

REQUIREMENTS FOR THE MINOR IN GLOBAL COMMUNICABLE DISEASE

MINOR CORE (15 HOURS)

- PHC 4109 Public Health Biology
- HSC 4504 Foundations of Public Health Immunology
- PHC 4031 Emerging Infectious Diseases
- PHC 4592 Public Health Genetics
- PHC 4140 Introduction to Public Health Geographic Information Systems
No courses may be applied toward both a major and a minor in Public Health.

**GPA REQUIREMENTS**
A minimum average 2.0 GPA is required in the 15 credits that are required for obtaining this minor.

**GRADING REQUIREMENT**
A minimum grade of C- for all required courses.

**OTHER INFORMATION**

Declaration of Minor:
http://health.usf.edu/publichealth/undergrad/continuing-students.htm

**ADVISING INFORMATION**
It is highly recommended that students meet with an advisor in the College of Public Health early to verify coursework for the minor.

For additional information about the minor, please contact:
- Email: UG-PublicHealthAdvising@health.usf.edu, Phone: (813) 974-4633

**MINOR IN HEALTH EDUCATION (HEAL)**

**TOTAL MINOR HOURS: 15**
http://health.usf.edu/publichealth/undergrad/academic-programs.htm

The goal of the Health Education minor in the Department of Community and Family Health is for students to develop basic skills in the development, implementation, and evaluation of theory-based public health education and health promotion programs for diverse audiences. The minor will also help prepare students for graduate coursework focused in these areas. By completing an additional 10 semester hours along with the minor, students should be eligible to sit for the Certified Health Education Specialist (CHES) national exam. Upon completion of the Health Education minor coursework, a student will be able to:

1. Articulate major public health theories and models focused on behavior change.
2. Develop health education programs for diverse audiences based on sound planning theory, tested frameworks and research design.
3. Communicate health education messages based on effective health communication strategies.
4. Develop skills in working with the media and health promotion advocacy.

The Health Education minor consists of 15 credit hours. It is recommended that students follow the sequence of courses below. Electives may be chosen from a broad array of courses in consultation with Public Health undergraduate advisors in the Department of Community and Family Health.

**REQUIREMENTS FOR THE MINOR IN HEALTH EDUCATION**

**MINOR CORE (15 HOURS)**

- PHC 4141 Intervention Program Planning and Management
- PHC 4464 Introduction to Health Disparities and Social Determinants
- PHC 4501 Health Education Theory and Behavior
- PHC 4582 Health Education Methods and Strategies
- PHC 4755 Foundations of Evaluation and Research in Public Health
OTHER INFORMATION

The Certified Health Education Specialist Exam (CHES):

This Minor will prepare students to take the Certified Health Education Specialist (CHES) exam that requires 25 semesters hours meeting the areas below:

Seven Areas of Responsibility:

- Area I: Assess Needs, Assets and Capacity for Health Education
- Area II: Plan Health Education
- Area III: Implement Health Education
- Area IV: Conduct Evaluation and Research Related to Health Education
- Area V: Administer and Manage Health Education
- Area VI: Serve as a Health Education Resource Person
- Area VII: Communicate and Advocate for Health and Health Education

Students Not Pursuing the BS in Public Health:

For those students who are not pursuing the BS in Public Health but another undergraduate degree, it is important to check with your advisor to determine those courses that could qualify for the 10 additional semester hours to sit for the CHES exam. The courses listed above as electives on the previous page are possibilities. Please also consult with Dr. Wright in the College of Public Health (lwrigh10@health.usf.edu) for more information.

Additional Information about the CHES from the website: https://www.nchec.org/ches-exam-eligibility.

CHES Exam Eligibility

Eligibility to take the CHES examination is based exclusively on academic qualifications. An individual is eligible to take the examination if he/she has:

A bachelor's, masters or doctoral degree from an accredited institution of higher education; AND one of the following:

- An official transcript (including course titles) that clearly shows a major in health education, e.g., Health Education, Community Health Education, Public Health Education, School Health Education, etc. Degree/major must explicitly be in a discipline of “Health Education.”

OR

- An official transcript that reflects at least 25 semester hours or 37 quarter hours of coursework with specific preparation addressing the Seven Areas of Responsibility and Competency for Health Educator

Nondiscrimination

The National Commission for Health Education Credentialing, Inc. (NCHEC) does not discriminate against any individual on the basis of religion, gender, ethnic background or physical disability.

90-Day Eligibility Option

The 90-day option is offered to students scheduled to graduate within 90 days of an exam date. To qualify for this option, a student must be enrolled in an accredited institution of higher education, and must submit an official transcript showing a minimum of 25 semester hours relating to the Area of Responsibility along with written verification from his/her faculty advisor assuring the student will complete all degree requirements within 90 days of the exam date.

Prescreening Service (optional)

This is a separate optional service offered to individuals and should ONLY be used if you are not sure you meet the requirements for the CHES exam. Upon receipt of the prescreen request form, fee and the applicant's official academic transcripts, NCHEC will review an applicant's credentials to determine eligibility. Deficiencies, if any, will be identified and guidance for exam qualification will be provided. This service is particularly useful to applicants whose academic preparation does not include a degree in health education, but who may have accumulated sufficient health education course work to qualify for the CHES examination. The prescreen request form requires a nonrefundable fee of $25.00. If eligible, the fee is applied toward the exam registration fee.
Prescreen Schedule:
- April Cycle: November 1 - February 1
- October Cycle: May 1 - August 1

Appeal of Denial of Eligibility:
1. If NCHEC does not approve an application for educational and/or disciplinary reasons, the applicant can initiate an appeal. Appeals must be made in writing to the Executive Director of NCHEC, including any supportive documents. The applicant is responsible for demonstrating that the appeal should be granted.
2. Appeals will be forwarded to the appropriate Division Board staff for review. The applicant will be notified in writing via USPS mail of the subsequent decision.

Requests for Special Testing Accommodations
Applicants requesting special arrangements and other special needs due to disabilities or religious restrictions must indicate this information on the application. Supporting documentation is required such as a letter from a religious leader indicating necessity to take for the exam on Sunday if choosing a Sabbath site. All requests must be received by application final deadline.

ADVISING INFORMATION
For more information regarding the minor contact:
Email: UG-PublicHealthAdvising@health.usf.edu, Phone: (813) 974-4633
Declaration of Minor: http://health.usf.edu/publichealth/undergrad/continuing-students.htm

MINOR IN INFECTION CONTROL (IFC)
TOTAL MINOR HOURS: 15
http://health.usf.edu/publichealth/undergrad/academic-programs.htm
The Infection Control minor is based on the competencies in the National Board Certification Exam for infection control. The minor provides a foundation of infection prevention and control principles for individuals interested in pursuing a career in infection prevention and control at a healthcare facility or alternate setting; or those who need this knowledge base to pursue opportunities at a local, state or national public health department; a governmental agency; an academic and/or research institution; or any other applicable arena.

REQUIREMENTS FOR THE MINOR IN INFECTION CONTROL
MINOR CORE (15 HOURS)
- HSC 4430 Occupational Health and Safety
- HSC 4504 Foundations of Public Health Immunology
- HSC 4573 Foundations of Food Safety
- PHC 4031 Emerging Infectious Diseases
- PHC 4032 Foundations of Infection Control

No courses may be applied toward both a major and a minor.

GPA REQUIREMENTS
A minimum average 2.0 GPA is required in the 15 credits that are required for obtaining this minor.

GRADING REQUIREMENT
A minimum grade of C- for all required courses.
OTHER INFORMATION

Declaration of Minor: http://health.usf.edu/publichealth/undergrad/continuing-students.htm

ADVISING INFORMATION

It is highly recommended that students meet with an advisor in the College of Public Health early to verify coursework for the minor.

For additional information about the minor, please contact:

Email: UG-PublicHealthAdvising@health.usf.edu, Phone: (813) 974-4633

MINOR IN MATERNAL AND CHILD HEALTH (PMC)

TOTAL MINOR HOURS: 15

http://health.usf.edu/publichealth/undergrad/academic-programs.htm

The Maternal and Child Health Minor in the College of Public Health prepares students for work in community-based organizations that focus on major public health problems of women, children and families, especially among culturally diverse and under-served populations.

REQUIREMENTS FOR THE MINOR IN MATERNAL AND CHILD HEALTH

MINOR CORE (9 HOURS)

- HSC 4579 Foundations of Maternal and Child Health
- HSC 4172 Women’s Health: A Public Health Perspective
- PHC 4141 Intervention Program Planning and Management (PR: PHC 4051)

MINOR ELECTIVES (6 HOURS)

Public Health majors may choose from this list of electives

- HSC 2130 Sex, Health, and Decision Making
- HUN 3296 Nutrition and Disease
- PHC 3721 Research Methods in Environmental and Occupational Health
- HSC 4573 Foundations of Food Safety
- PHC 4501 Health Education Theory and Behavior
- HSC 4933 Global Epidemiology of Pregnancy and Birth

Note: Any of the above courses taken for the Public Health major may not be utilized for the minor.

Non-Public Health majors may choose electives from this list of courses only:

- HSC 4624 Foundations of Global Health
- PHC 4030 Introduction to Epidemiology*
- HSC 4211 Health, Behavior, and Society*
- PHC 4069 Biostatistics in Society*

*Online offerings

Please check with your advisor in the College of Public Health for additional elective courses. For students who are in the undergraduate Public Health major, you cannot select courses that are required for your undergraduate program as your elective course.
OTHER REQUIREMENTS

For students who are in the undergraduate Public Health major, you cannot select courses that are required for your undergraduate program as your elective course.

OTHER INFORMATION

Declaration of Minor:

ADVISING INFORMATION

It is highly recommended that students meet with an advisor in the College of Public Health early to verify coursework for the minor.

For additional information about the minor, please contact:

- Email: UG-PublicHealthAdvising@health.usf.edu, Phone: (813) 974-4633

MINOR IN NUTRITION (NUT)

TOTAL MINOR HOURS: 15

http://health.usf.edu/publichealth/undergrad/academic-programs.htm

Nutrition science is both personally and professionally relevant, emphasizing health promotion, optimal human performance, disease prevention, quality of life and longevity. Career opportunities that are complemented by a nutrition minor include public health, health sciences, food technology, psychology, gerontology, social work, health promotion and communication, with potential employment in the public and/or private sector.

REQUIREMENTS FOR THE MINOR IN NUTRITION

MINOR CORE (15 HOURS)

- HSC 4573 Foundations of Food Safety
- HUN 2201 Nutrition
- HUN 3126 Food and Culture
- HUN 3272 Sports Nutrition
- HUN 3296 Nutrition and Disease

GPA REQUIREMENTS

A minimum average 2.0 GPA in the 15 credits are required for obtaining this minor.

GRADING REQUIREMENT

A minimum grade of C- for all required courses.

OTHER INFORMATION

Declaration of Minor:

ADVISING INFORMATION

It is highly recommended that students meet with an advisor in the College of Public Health early to verify coursework for the minor.

For additional information about the minor, please contact:

Email: UG-PublicHealthAdvising@health.usf.edu, Phone: (813) 974-4633.
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.

### REQUIREMENTS FOR THE MINOR IN PUBLIC HEALTH

It is recommended students follow the sequence of courses listed below. These courses will give students a broad overview of public health concepts.

### MINOR CORE (15 HOURS)

- HSC 4551 Survey of Human Diseases
- PHC 4030 Introduction to Epidemiology
- PHC 4101 Overview of Public Health Programs and Policies
- PHC 4464 Introduction to Health Disparities and Social Determinants
- Select one of the following courses:
  - HSC 4211 Health, Behavior, and Society
  - HSC 4624 Foundations of Global Health
  - PHC 3302 Introduction to Environmental and Occupational Health
  - PHC 4069 Biostatistics in Society

There may be no overlap between coursework in a major and coursework in a minor.

### GPA REQUIREMENTS

USF coursework for a minor must have a minimum GPA of at least 2.0.

### RESIDENCY REQUIREMENT

The minor requires 15 credit hours of Public Health coursework and at least 8 credit hours used to satisfy the requirements must be from USF Tampa courses.

### OTHER INFORMATION

Declaration of Minor: [http://health.usf.edu/publichealth/undergrad/continuing-students.htm](http://health.usf.edu/publichealth/undergrad/continuing-students.htm)

### ADVISING INFORMATION

It is highly recommended students meet with an advisor in the College of Public Health early to verify coursework for the minor.

For additional information about the minor, please contact:

Email: UG-PublicHealthAdvising@health.usf.edu, Phone: (813) 974-4633
CERTIFICATE IN COMMUNITY ENGAGED HOMELAND SECURITY & EMERGENCY MANAGEMENT

TOTAL CERTIFICATE HOURS: 15

https://documents.health.usf.edu/pages/viewpage.action?pageId=6096629

The undergraduate certificate will provide a broad foundation of Homeland Security and Emergency Management for individual interested in pursuit of a career in local, state or national government, military or in the global arena.

REQUIREMENTS FOR THE CERTIFICATE IN COMMUNITY ENGAGED HOMELAND SECURITY & EMERGENCY MANAGEMENT

CERTIFICATE CORE (15 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

OTHER INFORMATION

For information on the non-degree enrollment procedures, please visit:
http://health.usf.edu/publichealth/academicaffairs/registration/nondegreeseeking.html.

Degree seeking students may apply and/or enroll any semester as a certificate-seeking student.

ADVISING INFORMATION

It is highly recommended that students meet with an advisor in the College of Public Health early to verify coursework for the certificate.

Email: UG-PublicHealthAdvising@health.usf.edu, Phone: (813) 974-4633

CERTIFICATE IN GLOBAL COMMUNICABLE DISEASE

TOTAL CERTIFICATE HOURS: 12

https://documents.health.usf.edu/display/COPH/Certificate-in-Global-Communicable-Diseases

The Global Communicable Disease certificate provides a broad foundation of global health coursework with a focus on communicable/infectious diseases for individuals interested in pursuing a career at an academic and/or research institution, or in local, state or national government, military or in the global arena.

REQUIREMENTS FOR THE CERTIFICATE IN GLOBAL COMMUNICABLE DISEASE

CERTIFICATE CORE (9 HOURS)

- PHC 4109 Public Health Biology
- HSC 4504 Foundations of Public Health Immunology
- PHC 4031 Emerging Infectious Diseases

CERTIFICATE ELECTIVES (3 HOURS)

Choose one of the following courses:

- PHC 4592 Public Health Genetics
- PHC 4140 Introduction to Public Health Geographic Information Systems
CERTIFICATE IN INFECTION CONTROL

TOTAL CERTIFICATE HOURS: 12

https://documents.health.usf.edu/display/COPH/Certificate+in+Infection+Control

The Infection Control certificate is based on the competencies in the National Board Certification Exam for Infection Control. The certificate provides a foundation of infection prevention and control principles for individuals interested in pursuing a career in infection prevention and control at a healthcare facility or alternate setting; or those who need this knowledge base to pursue opportunities at a local, state or national public health department; a governmental agency; an academic and/or research institution; or any other applicable arena.

REQUIREMENTS FOR THE CERTIFICATE IN INFECTION CONTROL

CERTIFICATE CORE (9 HOURS)

- PHC 4032 Foundations of Infection Control
- HSC 4504 Foundations of Public Health Immunology
- PHC 4031 Emerging Infectious Diseases

CERTIFICATE ELECTIVES (3 HOURS)

Choose one of the following courses:

- HSC 4430 Occupational Health and Safety
- HSC 4573 Foundations of Food Safety

GPA REQUIREMENTS

A minimum average 2.0 GPA in the 12 credits that are required for obtaining this certificate.

GRADING REQUIREMENT

A minimum grade of C- for all required courses.

ADVISING INFORMATION

For more information regarding the certificate contact:

- Email: UG-PublicHealthAdvising@health.usf.edu, Phone: (813) 974-4633
CERTIFICATE IN PUBLIC HEALTH

TOTAL CERTIFICATE HOURS: 18

https://documents.health.usf.edu/display/COPH/Certificate+in+Public+Health

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.

REQUIREMENTS FOR THE CERTIFICATE IN PUBLIC HEALTH

It is recommended that students follow the sequence of courses listed below.

CERTIFICATE CORE (9 HOURS)

- PHC 4101 Introduction to Public Health
- HSC 4551 Survey of Human Diseases
- PHC 4030 Introduction to Epidemiology

CERTIFICATE ELECTIVES (9 HOURS)

Choose three of the following courses:

- HSC 2100 Contemporary Health Science
- HSC 2130 Sex, Health and Decision Making
- HSC 2017 Careers in Public Health
- HSC 2933 Special Topics in Public Health
- HUN 2201 Nutrition
- HSC 3541 Human Structure and Function
- HSC 4172 Women's Health: A Public Health Perspective
- HSC 4211 Health, Behavior and Society
- HSC 4504 Foundations of Public Health Immunology
- HSC 4537 Medical Terminology
- HSC 4579 Foundations of Maternal and Child Health
- HSC 4573 Foundations of Food Safety
- HSC 4624 Foundations of Global Health
- PHC 4031 Emerging Infectious Diseases
- PHC 4069 Biostatistics in Society
- PHC 4931 Health Care Ethics
- PHC 4032 Foundations of Infection Control
- PHC 3320 Environmental Health Science
- PHC 3721 Research Methods in Environmental and Occupational Health
- HSC 4213 Environmental and Occupational Risk Analysis
- HSC 4430 Occupational Health and Safety
- PHC 4188 Public Health Emergencies in Large Populations
- PHC 4234 Public and Private Continuity Planning for Emergencies
- PHC 4241 Psychology of Fear and Mental Health Issues Related to Disasters
- PHC 4375 Community Participation in Homeland Security
- PHC 4376 Disaster by Design: Exercise Development for Homeland Security Professionals
- PHC 4406 Pop Culture, Vices and Epidemiology
- PHC 4140 Introduction to Public Health Geographic Information Systems (GIS)
- PHC 4592 Public Health Genetics
- PHC 4109 Public Health Biology
- PHC 4501 Health Education Theory and Behavior
- PHC 4141 Intervention Program Planning and Management
- PHC 4582 Health Education Methods, Communication and Advocacy
- HUN 3126 Food and Culture
- HUN 3296 Nutrition and Disease
- HUN 3272 Sports Nutrition
- PHC 4720 Foundations of Public Health Writing
- HSC 4631 Critical Issues in Public Health
- HSC 4933 Special Topics in Public Health*

**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.

ADVISING INFORMATION

It is highly recommended that students meet with an advisor in the College of Public Health early to verify coursework for the certificate.

For more information regarding the minor contact:
- Email: UG-PublicHealthAdvising@health.usf.edu, Phone: (813) 974-4633
# ROTC Programs

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Here at USF, we are Detachment 158 of the Air Force Reserve Officer Training Corps (AFROTC) – Home of the “Flying Bulls.” The AFROTC curriculum we offer includes 16 credit hours of instruction by active duty Air Force officers. A cadet who successfully completes the AFROTC program and a Bachelor’s degree will earn an Air Force commission and enter active duty in the United States Air Force as a Second Lieutenant. AFROTC is offered in a variety of three-to-five year programs and cadets must be enrolled full-time; i.e., carry at least 12 credit hours each fall and spring semester. In addition to their academic work, AFROTC cadets are also required to take a 2-hour non-credit leadership laboratory (LLAB) each semester. Cadets wear Air Force uniforms during LLAB, plan and execute leadership training, and learn Air Force customs and courtesies. Furthermore, AFROTC cadets must attend two physical training sessions on Tuesdays and Thursdays of each week to prepare them to successfully complete the Air Force Physical Fitness Assessment each semester. Physical training sessions are an hour long and begin at 5:45 am.

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. For more information about scholarship criteria, contact us or visit www.afrotc.com for the most current scholarship information. An AFROTC scholarship is not required to enter or even complete the AFROTC program.

Students may join AFROTC at the beginning of the fall or spring semester. To get more information about our program or to start the process of becoming an AFROTC cadet, please contact our Air Force ROTC Office at USF via afrotc@usf.edu, phone 813-974-3367, or visit us in person on the 4th floor of the CWY Building, just north of the USF Campus Recreation Center on Maple Drive.

The program is divided into two categories. The General Military Course (GMC) consists of first and second year cadets The Professional Officer Course (POC) is made up of the third and fourth year cadets. To enter the POC a cadet must complete Field Training during the summer between second and third year. Field Training is intensive military leadership evaluation and training conducted at Maxwell Air Force Base, AL.

**General Military Course (GMC)**

The GMC consists of four one-hour courses offered in the fall and spring only. Each semester you are in GMC must include a two-hour LLAB and physical fitness sessions twice weekly. It is possible to take these 1-hour courses simultaneously to compress the GMC period from 2 years to 1 ½, or even 1 year. However, the 2-year program is the preferred approach. During GMC, cadets are introduced to the structure and core values of the U.S. Air Force as well as its storied history. Unless you are a scholarship cadet and in your second year of the program, you have no military obligation whatsoever and can leave at any time while in GMC. The program is designed like this so you can see if a career as an Air Force officer is right for you.

**GMC Courses:**

- AFR 1101 (Fall) -- Heritage and Values of the United States Air Force Part 1 (1 credit)
- AFR 1120 (Spring) -- Heritage and Values of the United States Air Force Part 2 (1 credit)
- AFR 2130 (Fall) -- Team and Leadership Fundamentals Part I (1 credit)
- AFR 2140 (Spring) -- Team and Leadership Fundamentals Part 2 (1 credit)
Field Training (FT)
Prior to entering the Professional Officer Course, cadets must successfully complete Field Training (FT) at Maxwell Air Force Base, Montgomery, Alabama which will test their leadership potential. Earning a FT slot is competitive and selection is based on several performance criteria such as GPA, standardized test scores, and Physical Fitness Assessment scores.

Professional Officer Course (POC)
The POC consists of four semesters of three-hour courses offered only in the fall and spring. Each semester you are in POC must include a two-hour LLAB and physical fitness sessions twice weekly. Unlike GMC, the POC cannot be compressed and requires 2 years to complete. POC cadets learn and apply leadership and time management principles and are responsible for the design and execution of all cadet activities. Active duty officers are available full-time to guide and mentor POC cadets to ensure they provide quality training for all the cadets in the program. POC cadets conduct the leadership seminars and manage the cadet corps. To develop POC cadets and prepare them to enter active duty, emphasis is placed on small group discussions and presentations on topics such as management, communication skills and national defense policy. As a POC cadet, you sign an Air Force Reserve contract. This entitles you to a monthly stipend of $300 to $500 during the academic year whether or not you receive an AFROTC scholarship.

POC Courses:
- AFR 3220 (Fall) – Leading People and Effective Communication Part 1 (3 credits)
- AFR 3231 (Spring) -- Leading People and Effective Communication Part 2 (3 credits)
- AFR 4201 (Fall) -- National Security Affairs and Preparation for Active Duty Part I (3 credits)
- AFR 4211 (Spring) -- National Security Affairs and Preparation for Active Duty Part 2 (3 credits)

Both GMC and POC cadets must also enroll in AFR 2001 (Fall/Spring) -- AFROTC Leadership Lab (0 credit – S/U grade only)

Just like physical training, all Air Force ROTC cadets must participate in LLAB every semester. LLAB is a cadet-run course that provides excellent opportunities to develop your leadership and followership skills. Our goal in AFROTC is to develop leaders for the Air Force, so LLAB is an essential piece of your development as a future Air Force officer.

Furnished Items
The Air Force ROTC detachment provides all required items free of charge that you'll need in the program to include a variety of uniforms and all AFR course material.

Air Force Careers
In addition to pilot careers, there are a multitude of USAF career options for officer candidates. To assist cadets in selecting an Air Force career, we bring in active duty officers from various career fields each semester to talk with our cadets. We also visit nearby military bases and coordinate orientation flights in actual USAF aircraft. With this background, cadets can make an informed decision on the career path that interest them most. Competition for flying careers occur in the first year of the POC. The selection for non-flying careers occurs at the beginning of the second year in POC.
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.
The Naval Science Program at the University of South Florida is administered by the Naval Reserve Officers Training Corps (NROTC) Unit. This program affords selected men and women the opportunity to receive instruction in Navy specified courses which, in conjunction with the baccalaureate degree, will qualify them for a commission in the United States Navy or Marine Corps. Students enrolled in the university who are physically and mentally qualified are eligible to apply for the NROTC program. As naval officers, USF NROTC graduates become eligible for varied careers, serving in aviation squadrons, on surface ships, on submarines in the nuclear power program, at naval installations all over the world, or in the numerous sub-specialties as an officer of the Marines Corps. With the consent of the Professor of Naval Science, any student, although not enrolled in the NROTC program, is eligible for enrollment in naval science courses. The USF NROTC Unit offers participation through three programs: (1) the Navy-Marine Corps Scholarship Program, (2) the Navy-Marine Corps College Program, and (3) the Three-Year/Two-Year NROTC Scholarship Program.

The Navy-Marine Corps Four-Year Scholarship Program
The NROTC National Scholarship Program is open to young men and women of all races, creeds, and national origin who are United States citizens. Students are selected on their own merit to become officers in the United States Navy and Marine Corps. Scholarship students are appointed Midshipmen, U.S. Navy Reserve. The Navy pays for tuition, fees, textbooks, uniforms, and a monthly subsistence allowance of up to $400.00 for four years. Scholarship students are normally selected through national competition during their senior year in high school. 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 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. Students in the College Program compete for 3-year or 2-year scholarships which must be earned prior to commencement of junior year. The Navy pays for uniforms and naval science textbooks for the freshman and sophomores each year. Each student is eligible to apply for a two- or three-year Sideload Scholarship through the NROTC unit based on past academic performance, potential, physical fitness and advisor evaluations. This scholarship covers tuition, fees, books and a stipend akin to the 4-Year Scholarship Program. Other students may receive Advanced Standing which only provides a stipend. Those students who do not obtain a Sideload Scholarship or Advanced Standing by their junior year will be dropped from the program. A college program midshipman only acquires a military service obligation after entering the advanced courses at the beginning of the junior year.

Although there are no restrictions on the major college program students may pursue, it is highly recommended that they pursue a course of study similar to that of scholarship students. Students must also include in their program certain Navy specified courses and a program of courses in naval science. Students, upon graduation and successful completion of the naval science curriculum, receive a commission as an Ensign in the U.S. Navy or a Second Lieutenant in the U.S. Marine Corps and serve on active duty for a minimum of five years.
Three-Year/Two-Year NROTC Scholarship Program
The three-year/two-year scholarship program is offered on a limited basis specifically for students commencing their second or 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 May 31st. Qualifications for acceptance to this program include demonstrated ability to excel in a math, physical science, or engineering major and who has demonstrated above average performance in integral calculus.

Regardless of the major, every scholarship student must complete one year of calculus-based physics and one year of calculus. Students must include certain Navy specified courses in their program and complete a program of courses as prescribed by the Professor of Naval Science. Upon graduation, and successful completion of the naval science curriculum, the midshipman will receive a commission as an Ensign in the U.S. Navy and serve on active duty for a minimum of five years for Navy option and Marine option.

Summer Training
The NROTC Scholarship Program student is required to complete training of approximately four weeks during each of the three summer recesses. During the first summer period, each scholarship student will receive instruction in aviation training, marine combat training, surface warfare indoctrination, and submarine indoctrination either in Norfolk, Virginia or San Diego, California. The second summer training period will be performed aboard operational ships of the U.S. Fleet. During the third summer, candidates for U.S. Navy commissions will perform training aboard operational ships or aviation squadrons as a junior officer. The student who qualifies for nuclear propulsion training may elect to cruise on nuclear powered ships or submarines. Some midshipmen cruise with allied navies through the Midshipman Foreign Exchange Program. Transportation costs to and from the training sites, subsistence, quarters, and pay of approximately $365 per month will be paid to every participating student. The candidates for U.S. Marine Corps commissions will perform training at the U.S. Marine Corps Base, Quantico, Virginia. The Marine Option NROTC Summer Training Program, “OCS,” is a six-week training program designed to prepare midshipmen for appointment to commissioned grade by providing basic military instruction and physical training. An evaluation of midshipmen is made to ensure that they possess the leadership, academic, and physical qualifications required for appointment to commissioned grade in the Marine Corps Reserve. Female midshipmen participate in all NROTC curriculum requirements and activities, including cruises aboard selected ships. A woman who has qualified for Marine Option NROTC Summer Training at Quantico attends the Woman Officer Candidate Course in Quantico, Virginia.

Specified University Courses
In addition to satisfying requirements for a Baccalaureate degree, the student must satisfactorily complete the following four-year curriculum guide, including required naval science courses and specified university courses.

Furnished Items
All uniforms, textbooks, and equipment needed by the student for naval science courses are furnished by the Navy.

Use of Naval 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.
The Joint Military Leadership Center
4202 E. Fowler Avenue, SVC 2002
Tampa, FL 33612
(813) 974-4051
https://www.usf.edu/undergrad/jmlc/index.aspx

Consistent with the mission of the University of South Florida, a global, research university, The Joint Military Leadership Center focuses on preparing future commissioned officers to lead in a joint, multi-national environment through providing and maintaining a unique, state of the art, joint training facility for ROTC; sponsorship of joint activities; and promotion of joint planning and inter-service cooperation.

Programs
The Joint Military Leadership Center develops and implements educational programs to enhance the quality of the ROTC curriculum. Students will gain a better understanding and appreciation for the capabilities, limitations and culture of each military service and the challenges and value of joint operations. These programs include:

1. Sponsorship of relevant speakers from the Department of Defense, the Armed Services, Unified Combatant Commands, and the Senior National Representatives of the Coalition at U.S. Central Command.
2. An ROTC Living Learning Community (LLC) established in the university's Housing and Residential Education Department. See https://www.usf.edu/housing/residential-learning/llc-interest/rotc.aspx.
3. Student visits to MacDill Air Force Base and Unified Combatant Commands - U.S Central Command (USCENTCOM) and U.S. Special Operations Command (USSOCOM).
4. Promotion of cross-cultural competence and study of foreign languages and cultures.

The Joint Military Leadership Center focuses on preparing future commissioned officers to lead in a joint, multi-national environment through providing and maintaining a unique, state of the art, joint training facility for ROTC; sponsorship of joint activities; and promotion of joint planning and inter-service cooperation.

FOR PROGRAM REQUIREMENTS,
SEE UNDERGRADUATE STUDIES SECTION OF THE CATALOG.
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About the College

The College of The Arts is the creative center of the University of South Florida's Tampa campus. We prepare students for careers in architecture, community design, art, art history, music, theatre, and dance. USF is not only the starting point of a career in the arts, but Tampa Bay is also a perfect place to become part of the arts community.

At USF, we provide our students with hands-on experiences and real-world opportunities for exhibitions, performances and practice within our own university gallery spaces, museum and performance halls. Students also participate in design, research, performance and exhibition projects across the Tampa Bay community. We proudly feature our students, faculty and guest artists in almost 300 stage productions, concerts, exhibitions and lectures each year. Many of these are free and open to the public.

Research is how the College of The Arts provides resources to help students and the community benefit from the work and discovery at this university. Research in the Arts expands the practice of our students, faculty and community of artists through interdisciplinary work, global explorations of perspectives and local community engagement. The three research units of the College of The Arts – the Institute for Research in Art, the Center for Music Education Research and the Florida Center for Community Design and Research – exemplify the interdisciplinary significance of the arts. Through these research units, our students are exposed to various contemporary works that become incorporated into their curriculum and expand their own creative practices.

Mission, Vision, Values

Mission

The mission of the University of South Florida's College of The Arts is to conduct scholarly and creative research and to challenge and inspire students to make significant contributions in the arts. At USF, we provide a learning environment that is engaged locally and nationally in contemporary issues and initiatives.

Vision

Our college aspires to achieve national and international recognition as a distinguished center for study, creation, and research (in architecture and community environmental design, publishing of prints and sculpture multiples, visual arts, dance, music, theatre, and contemporary exhibitions). We provide an innovative and exciting environment to prepare the next generation of architects, artists, designers, educators, scholars, and audiences for these disciplines. The Arts at USF supports and promotes creative research (including history and theory), performance, and production in these disciplines while continuing to engage the Tampa Bay community by enriching the cultural landscape and advancing sustainable practices.

Values

Our college values the role and function the arts have — both historically and in the present — as a means of discovery, expression, and reflection on our human experience and the world in which we live.
More specifically we value:

- Innovative approaches to teaching that fosters critical thinking, creative problem solving and effective communication
- Rigorous preparation in the foundations of one’s discipline as a point of departure for creative development and scholarship
- Significant scholarly and creative research
- The diverse perspectives of faculty, guest artists/lecturers/scholars, and students
- Active involvement in the local, national, and international discipline-based dialog
- Interdisciplinary and collaborative opportunities – locally, nationally, and internationally
- Community engagement and partnerships
- Production and presentation of distinctive contemporary work
- Collegial participation of faculty, staff, and students in efforts of the schools, college, and university

Accreditation

School of Architecture & Community Design
The USF School of Architecture & Community Design is accredited by the National Architectural Accrediting Board: For additional information about NAAB, visit their website at http://www.naab.org

School of Art & Art History
The USF School of Art & Art History is accredited by the National Association of Schools of Art and Design: For additional information about NASAD, visit their website at http://www.nasad.accredit.org

School of Music
The USF School of Music is accredited by the National Association of Schools of Music: For additional information about NASM, visit their website at http://www.nasm.accredit.org

School of Theatre & Dance
The Theatre Program is accredited by the National Association of Schools of Theatre: For additional information about NAST, visit their website at http://www.nast.accredit.org

The Dance Program is accredited by the National Association of Schools of Dance: For additional information about NASD visit their website at http://www.nasd.accredit.org

Contemporary Art Museum
The USF Contemporary Art Museum is accredited by American Alliance of Museums: For additional information about AAM, visit their website at http://www.aam-us.org

College-Level Requirements

Admission Requirements

To apply for academic programs in the College of The Arts, you must first be accepted to the University of South Florida. Once you meet USF requirements (https://www.usf.edu/admissions/), you can apply to your program of interest. Some programs require an audition or portfolio submission. Check individual requirements for your program of interest before applying.

Step 1: Apply for admission to the University of South Florida (see https://secure.vzcollegeapp.com/usf/default.aspx?cid=87&lid=1).

Step 2: Apply for admission to the College of The Arts’ schools, please see Program-Specific Requirements.
General Requirements for Bachelor Degree Programs within the College of The Arts

1. All Bachelor degree programs require 120 credit hours with the exception of the Bachelor of Science degree in Music Education, which requires 134 credit hours.

2. 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.

3. 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.

4. A maximum of four credit hours of elective Physical Education credits taken at USF may be counted as general elective credit.

5. Students must satisfactorily meet the State Communication Requirement and State Computation Requirement.

6. Students applying for a B.A. degree must demonstrate competency in a foreign language as described under Foreign Language Competency Policy of this catalog.

7. For degree programs, see requirements listed under each School.

8. Beginning Fall semester 2012, students must successfully complete a minimum of 50 percent of the courses required for their major on their specific home campus within the USF System. A student must also earn 30 of the last 60 hours of credits in residence at USF. However, any course work to be taken and any credits to be earned outside of the university must have prior approval from the appropriate school and the college in order to apply these credits toward graduation.

9. Waiver of prerequisite coursework 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.

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.

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.

Program-Specific Requirements

School of Architecture & Community Design
https://www.usf.edu/arts/architecture/

Bachelor degrees are not awarded through the School of Architecture & Community Design. However, you can enroll in the Pre-Architecture program as an undergraduate. Once you have completed those courses, you are able to enroll in the Master degree programs.
School of Art & Art History
https://www.usf.edu/arts/art/apply/index.aspx

The School of Art & Art History offers Bachelor degrees in both Studio Art and Art History. No additional materials are required for admission to the undergraduate BA and BFA in Studio Art, or BA in Art History.

School of Music
http://music.arts.usf.edu/

The School of Music provides a variety of areas of study for undergraduate programs. This includes brass, composition & electronic music, jazz studies, music education, percussion, piano, strings, voice, and woodwinds. Auditions are required for admission to all performance concentrations.

School of Theatre & Dance
http://theatreanddance.arts.usf.edu/

The School of Theatre & Dance offers undergraduate degrees only. Auditions are required for admission to the Dance programs. Theatre auditions only take place for upper-level performance coursework but are not required for admission. Portfolio submission is required for the Theatre Design concentration upper-level coursework.

Graduation Requirements
You must apply for graduation during your last semester of coursework and meet with your advisor to confirm your eligibility to graduate. The general university requirements for graduation are as follows:

- 120 credit hours or more, with cumulative 2.0 GPA.
- At least a 2.0 GPA in all USF courses.
- Complete at least 42 credit hours of upper division work.
- Complete State Communication and Computation requirements and USF Enhanced General Education courses.
- Complete Summer Enrollment requirements.
- Complete program requirements.
- You may need to complete specific College of The Arts requirements.

Instructions for submitting your USF Graduation Application are available on the Office of Registrar's website at https://www.usf.edu/registrar/resources/graduation.aspx. Remember to keep up with deadlines when applying for graduation and registering for commencement. These dates are different each semester, so check the Office of the Registrar's website regularly.

For information about The Art's Graduation Celebration, see https://www.usf.edu/arts/advising/graduation-celebration.aspx.

Other Information - 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 general 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.

Baccalaureate-Level Degree Programs

Global Pathways
https://www.usf.edu/gcp/students/index.aspx

A Global Pathway is an undergraduate major or degree program that has significant global content. Global Pathways provide students with the opportunity to practice and apply global competencies through the major or degree program. The following programs are designated as Global Pathway Programs:

Music Education
http://music.arts.usf.edu/content/go/music-education/
COLLEGE OF THE ARTS
UNIVERSITY OF SOUTH FLORIDA 2019-20 UNDERGRADUATE CATALOG

Theatre
http://theatreanddance.arts.usf.edu/content/go/theatre/

Bachelor of Arts

Art History
https://www.usf.edu/arts/art/apply/index.aspx

Our B.A. program develops skills in critical looking, thinking and writing, and is excellent preparation for students interested in pursuing graduate studies in art history or considering a museum profession or other work in today's professional art world.

Dance
http://theatreanddance.arts.usf.edu/content/templates/?z=11&a=98

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.

Music Studies
http://music.arts.usf.edu/content/templates/?a=1511&z=153

The Bachelor of Arts in Music Studies is a non-professional degree for students who wish to supplement other interests with music study. This program is ideal as part of a double major with a field outside of music. Requirements include approximately 50 hours in music with emphasis choices in performance, composition, history and theory. Admission into the program requires an audition on your major instrument.

Studio Art
https://www.usf.edu/arts/art/index.aspx

The B.A. in Studio Art is a 120 credit degree that is designed to develop the student's consciousness of aesthetic and ideological aspects of art and its relationship to life. The degree also assists students in the realization of personal ideas, art making skills and imagery. The B.A. is oriented toward a general and broad immersion in the field. Studio courses are supplemented with studies in art history, foreign language and an abundance of electives both within the School of Art and Art History and throughout the campus.

Theatre
http://theatreanddance.arts.usf.edu/content/templates/?a=84&z=10

Through its curriculum and production program, students have the opportunity to prepare for a professional career in the theatre or to continue their studies at the graduate level. Our exclusively undergraduate program boasts intensive studies in the disciplines of performance, design and theatre arts as well as a close working relationship with our nationally and internationally recognized faculty.

Bachelor of Fine Arts

Dance
http://theatreanddance.arts.usf.edu/content/templates/?z=11&a=92

The BFA in Dance Performance 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.

Studio Art
https://www.usf.edu/arts/art/index.aspx

The BFA in Studio Art is a 120 credit degree that is the initial professional degree in the field. As such, it has a concentrated focus on the development of art making skills combined with conceptual and critical thinking. The degree is designed to develop the student's consciousness of aesthetic and ideological aspects of art and its relationship to life. Studio studies and experiences are of prime importance in the preparation of BFA students for professional lives in the visual arts.
Bachelor of Music

Music Performance
http://music.arts.usf.edu/content/templates/?a=1511&z=153

The Bachelor of Music is a professional degree for students who wish to pursue a career in music. Students interested in a BM can choose between three areas of concentration: composition (acoustic and electronic music), jazz studies and performance. This program requires 120 credit hours that includes intense private study on their principle instrument and participation in ensembles.

Bachelor of Science

Music Education
http://music.arts.usf.edu/content/templates/?a=1511&z=153

The Bachelor of Science degree in Music Education is a professional degree for students who are interested in teaching music in K-12 schools in the ever-changing music classrooms of the 21st century. This program is an intense study of music and education courses that provide students with state certification upon graduation. In addition to private study on their principle instrument and participation in ensembles, students complete music theory, history and literature sequences, and take a variety of music education courses.

Accelerated Programs

Architecture Program
https://www.usf.edu/arts/architecture/

The USF School of Architecture and Community Design offers a 2+4 program. A two-year undergraduate architecture program, coupled with general education coursework, is followed by a rigorous four-year comprehensive architecture education. There are several routes into and through the SACD architecture curriculum. Access to the four-year graduate program is competitive with only 45 students selected annually.

Before entering the 4-year architecture graduate program, students complete a minimum of 60 credit hours of general education and prerequisite courses at the University of South Florida or another college/university (the “2” of the 2+4). Having completed these requirements, students will complete the School’s 108 credit hour, Master of Architecture (M. Arch) degree program (the “4” of the 2+4). For more information regarding these requirements and coursework can be found on the Undergraduate page at https://www.usf.edu/arts/architecture/apply/index.aspx.

Minors

Art

The School of Art & Art History offers two concentrations for the Minor in Art: Studio and Art History.

Dance
http://theatreanddance.arts.usf.edu/content/templates/?z=11&a=94

The Dance Minor is designed to provide students with a scope of experiences in dance, which includes studio technique, creative studio studies and dance theory. The student seeking a Dance Minor should arrange to meet with the academic advisor in dance.

Theatre
http://theatreanddance.arts.usf.edu/content/templates/?a=86&z=10

The Theatre minor is structured to give students an overview of drama and theatre, in terms of history, performance, and criticism. The curriculum involves the student in both the practical and theoretical aspects of the theatre process.
Concentrations

A concentration is any organized set of courses that is offered as part of a major and enhances or complements the degree program to be awarded in a manner that leads to specific educational or occupational goals, and/or from different disciplines that provide an interdisciplinary focus.

DANCE – B.A.
- Dance Studies

DANCE – B.F.A.
- Ballet
- Modern Dance

MUSIC PERFORMANCE
- Jazz Studies
- Performance
- Acoustic & Electronic Composition

THEATRE
- Theatre Arts
- Design
- Performance

Certificates

Advanced Dance Studies
http://theatreanddance.arts.usf.edu/content/templates/?z=0&a=5891

This certificate is designed for students who possess a strong background in dance technique (ballet/modern). It is meant for individuals who would like to heighten their studies in dance and earn advanced level training.

Art History
https://www.usf.edu/arts/art/academics/minors-and-certificates/

The Certificate in Art History is designed for undergraduate students majoring in another field who also seek a concentration in art history. This certificate constitutes a sequence of five art history courses (15 credit hours) that provides students with a broad introduction to the field of art history.

Business and Art

The Certificate in Business and Art provides for the analysis and hands-on implementation of applied, innovative arts projects and business practices for all majors interested in maximizing creative problem solving with the integration of marketing and finance development in order to realize long-term strategies.

Dance Medicine and Science
http://theatreanddance.arts.usf.edu/content/templates/?z=0&a=5891

This certificate is designed for students who are degree-seeking (any major) OR non-degree seeking and who possess a strong interest in exploring the field of dance medicine/science. This certificate program will give students a basic understanding of issues pertaining to the wellness of dancers such as: typical injury and misalignment patterns, injury prevention and treatment, injury risk factors, effective conditioning, muscular analysis of dance movement, and current topics in dance medicine/science research.

Electrical Engineering, Digital Design, and The Arts

The union of arts and engineering has emerged as a significant intellectual, commercial and educational concept and has sparked creative new programs across the planet. The USF Electrical Engineering, Digital Design, and The Arts Certificate is for undergraduate students who are interested in this union, and exploring the overlapping areas of electrical engineering technology and the visual arts.
Visualization and Design

The Certificate in Visualization and Design provides theoretical studies and hands-on practice for all majors interested in the creative design of visual communication. Outcomes include building a portfolio from a variety of visual media and prepares those who complete the certificate for fields (depending on course selections) ranging from media designers, to animators, to research and product designers, to graphic/data developers.

Undergraduate Advising Information

Contact Information

**USF College of The Arts**
Office of Student Services & Advising
4202 East Fowler Ave, FAH 120
Tampa, FL 33620
(813) 974-3660
https://www.usf.edu/arts/advising/contact.aspx

Student Services & Advising offers academic support to prospective and current students in the USF College of The Arts. This includes the School of Architecture & Community Design, School of Art & Art History, School of Music and School of Theatre & Dance.

The Student Services & Advising Office assists prospective and current students with individualized academic planning. A few services provided include academic advisement, career guidance, and opportunities to engage with the College of The Arts community. Our academic advisors meet with students one-on-one to help each student map a path to graduation with opportunities for growth and knowledge during their time at USF.

To make a face-to-face appointment with an Academic Advisor:

- If you are an accepted or currently registered student at USF, use escheduler at [https://usfweb.usf.edu/escheduler/student.aspx](https://usfweb.usf.edu/escheduler/student.aspx) (requires login).
- If you ARE NOT a USF student, use the advisor appointment system at [https://usfweb.usf.edu/escheduler/NonStudentlogin.aspx](https://usfweb.usf.edu/escheduler/NonStudentlogin.aspx)
The curriculum in art history reflects the belief that a traditional liberal arts program, supplemented by travel, is the best preparation for students who wish to teach the history of art at the college level or work in museums and galleries. Students will not specialize in a particular area such as Renaissance or Modern, but will acquire a general knowledge of the history of art. All Art History majors are required to take at least one 4000-level non-Western Art History course. Courses in areas such as history, philosophy, and literature are recommended as electives, both as supplement to undergraduate courses in art history and as a background for future graduate work. Art history majors are required to take courses in studio art as a means of better understanding what is involved in the art making process. It is important that students make every effort to travel to major museums in this country and, if possible, abroad.

STATE MANDATED COMMON COURSE PREREQUISITES

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 General Education 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.

Transfer students are also required to comply with the immunization, foreign language, and continuous enrollment policies of the university.

Students should complete the following prerequisite courses 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 in prerequisite courses.

- ART X201 or ART X202 or ART X203 or ART X205
- ART X300 or ART X301 or ART X310
- ART X050 Introduction to Art History I
- ART X051 Introduction to Art History II
- XXX XXXX 9-12 semester hours of a single foreign language

REQUIREMENTS FOR THE MAJOR IN ART HISTORY

TOTAL MAJOR HOURS: 41

MAJOR REQUIREMENTS FOR THE B.A. DEGREE:

MAJOR CORE (41 HOURS)

1. Art Preparation (12 credit hours):
   - ARH 2050 History of Visual Arts I*
   - ARH 2051 History of Visual Arts II*
   - ART 2201C Concepts and Practices I
   - ART 2301C Beginning Drawing

*History of Visual Arts I and II must be used to satisfy the General Education Historical Perspectives requirement if the student is to remain within 120 hours for the degree.
2. **Art History Survey (18 credit hours):**
   - ARH 4170 Greek and Roman Art
   - ARH 4200 Medieval Art
   - ARH 4301 Renaissance Art
   - ARH 4310 Early Italian Renaissance
   - ARH 4312 Late Italian Renaissance
   - ARH 4333 Northern Renaissance Art
   - ARH 4350 Baroque and Rococo Art
   - ARH 4430 19th Century Art
   - ARH 4450 20th Century Art
   - ARH 4475C Contemporary Issues in Art
   - ARH 4520 African Art
   - ARH 4530 Asian Art
   - ARH 4571 Themes in Islamic Art and Architecture
   - ARH 4930 Art History: Selected Topics*

   *ARH 4930 Art History Selected Topics may be taken for degree credit only by approval of the academic advisor for the School of Art and Art History.

3. **Art History Critical Studies or Directed Reading (9 credit hours):**
   - ARH 4800 Critical Studies in Art History and/or
   - ART 4900 Directed Reading

   **Students may substitute 3 hours of ARH 4800 Critical Studies for 3 hours of 4000-level Art History Survey by permission of the instructor.

4. **Plus (2 credit hours):**
   - Extended Studies: required of all majors - London Middlesex Program, Paris Program, Public Art, Museum Internships, Community Art, Artists Internship/Apprenticeships, Art History Apprenticeships

All Students earning a BA degree in Art History must complete the Foreign Language Exit Requirement.

Students are encouraged to take additional credits in Art History critical studies courses and Art History survey courses.

**GRADING REQUIREMENT**

All coursework in The School of Art & Art History must have a grade of "C" or better to satisfy program requirements.

**RESIDENCY REQUIREMENT**

In accordance with the policies of the University of South Florida a minimum of 50 percent of a candidate's credits in the major must be completed with the School of Art and Art History on the Tampa campus.
RESEARCH OPPORTUNITIES

All undergraduate students in any degree program can participate in undergraduate research. There are a number of options to receive academic credit for a mentored research experience and to have the experience show on the official transcript. Students who wish to enroll in an undergraduate research course should consult with their academic advisor to understand how the credit will apply towards the degree requirements. If no credit is needed, students may be eligible to enroll in the 0-credit IDS 2912, IDS 4914 or IDH 4910 courses. These courses will not impact degree credits or GPA but will show on an official transcript and document the experience. The Office of Undergraduate Research will assist students in understanding the various course options.

ADVISING INFORMATION

Rachel Lynch
rhedrick@usf.edu

ART HISTORY FACULTY


B.A. - DANCE (DAN)

(CIP = 50.0301 TRACK 1 OF 2)
TOTAL DEGREE HOURS: 120

http://theatreanddance.arts.usf.edu/content/templates/?z=11&a=98

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, Health Science, History, Psychology, Religious Studies, Theatre, Women's Studies, etc.) should complete focused study in that area along with the core of study in dance. Each student is required to develop a final independent project incorporating dance with his or her focused study. Dance students must continue to take at least one technique course each semester. At the end of the third semester, the faculty will determine if appropriate progression has been made for continuation in the B.A. Dance major.

LIMITED ACCESS

THIS MAJOR HAS ADDITIONAL ADMISSIONS REQUIREMENTS AS LISTED IN THIS SECTION.

The B.A. in Dance is a limited access program and is designed to provide students with a comprehensive core of study in Studio Technique, Choreographic Studies, and Dance Studies.

STATE MANDATED COMMON COURSE PREREQUISITES

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 General Education 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.

Transfer students are also required to comply with the immunization, foreign language, and continuous enrollment policies of the university.
Students should complete the following prerequisite courses 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 in prerequisite courses.

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.

- DAN X603 or DAN X610 (2 credit hours)
- TPA X200 or TPA X223 or TPA X232 (3 credit hours)
- DAA X200-X209 (9 credit hours)
  - up to 10 credit hours of any lower-level Ballet Technique courses within the X200-X209 taxonomy
- DAA X100-X109 (9 credit hours)
  - up to 10 credit hours of any lower-level Modern Technique courses within the X100-X109 taxonomy

Please Note: Although credit toward the major will be given for these courses, placement in upper level technique classes will continue to be based on individual student proficiency.

Please Note: Other technique courses (i.e., in other styles of dance) may be accepted toward the major on a case-by-case basis at the discretion of the University.

REQUIREMENTS FOR THE MAJOR IN DANCE

MAJOR REQUIREMENTS FOR THE B.A. DEGREE:

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.

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.
COURSE GRADE REQUIREMENT

A student must receive a C grade or better in required prerequisite courses and major course for Dance majors. Should a student fail to do so, the course(s) in which the student receives D or F grades must be repeated and a C grade or better earned.

RESEARCH OPPORTUNITIES

Note: Students in the B.A. take two Research courses as part of their degree program and complete an independent research project.

ACCREDITATION INFORMATION

The Dance Program is accredited by the National Association of Schools of Dance (NASD)

DANCE FACULTY

Director: M. Powers; Assistant Director: M.L. Morris Professors: J. Travers; Associate Professors: A. Carroll, M. Foley, A. Scott; Assistant Professors: B. Kohlmyer Instructors: M.L. Morris, P. Nunez, J. Parks; Academic Advisor: N. Niforos; Professors Emeriti: S. Robinson, G. Warren.

DANCE STUDIES (DAS) CONCENTRATION

(CIP = 50.0301)

REQUIREMENTS FOR THE CONCENTRATION IN DANCE STUDIES

TOTAL CONCENTRATION HOURS: 64-74

CONCENTRATION CORE (55-65 HOURS)

Studio Technique (19-29 semester hours)

- DAA 2204 Ballet I
- DAA 2104 Modern Dance I
- DAA 3108 Modern Dance II
- DAA 3214 Ballet II
- DAA 3109 Modern Dance III or DAA 3209 Ballet III
- DAA 3395 World Dance Topics

Creative Studio Studies (12 semester hours)

- DAA 3624 Dance Improvisation
- DAA 3614 Choreography I
- DAA 3615 Choreography II
- DAA 4616 Choreography III
- DAA 4617 Choreography IV
- DAA 3686 Junior Performance Project
- DAA 4687 Performance

Dance Studies (24 semester hours)

- DAN 2160 Entry Seminar
- DAN 2100 Understanding the Dance Experience
### COLLEGE OF THE ARTS

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- DAN 3584 Technical Theatre in Dance
- DAN 3714 Dance Kinesiology
- DAN 4134 Ballet History
- DAN 4135 20th Century Dance History
- DAN 4162 Research in Dance I
- DAN 4163 Research in Dance II
- DAN 4180 Dance Senior Seminar
- DAN 4906 Directed Study: Independent Research Project

**Concentration Electives (9 hours)**

Students choose 9 credit hours of focused electives in the other area of interest in consultation with the advisor.

**GRADING REQUIREMENT**

A student must receive a C grade or better in required courses for Dance majors. Should a student fail to do so, the course(s) in which the student receives D or F grades must be repeated and a C grade or better earned.

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### B.F.A. - DANCE (DAN)

(CIP = 50.0301 TRACK 2 OF 2)

**TOTAL DEGREE HOURS: 120**

[http://theatreanddance.arts.usf.edu/content/templates/?z=11&a=92](http://theatreanddance.arts.usf.edu/content/templates/?z=11&a=92)

The B.F.A. in Dance (Ballet or Modern concentrations) offers professional preparation, which includes extensive study in Studio Technique, Choreographic Studies, and Dance Studies. The focus of this degree is the development of dancers who will enter the professional world of dance/arts as performers and choreographers. Beyond the expectations for continuing opportunities for performance, students selecting the B.F.A. will develop and present solo and group senior choreographic projects.

### LIMITED ACCESS

**THIS MAJOR HAS ADDITIONAL ADMISSIONS REQUIREMENTS AS LISTED IN THIS SECTION.**

The B.F.A. is a limited access program. Students must participate in a selective admissions procedure. At the end of their third semester, students will be assessed by Dance faculty to determine eligibility. Dancers must continue to take technique courses throughout their degree program.

### STATE MANDATED COMMON COURSE PREREQUISITES

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 General Education 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.

Transfer students are also required to comply with the immunization, foreign language, and continuous enrollment policies of the university.

Students should complete the following prerequisite courses 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 in prerequisite courses.
Although credit or elective credit toward the major will be given for these courses, placement in upper-level technique classes will continue to be based on individual proficiency. Other technique courses in other styles of dance may be accepted toward the major on a case-by-case basis, at the discretion of the University. Transfer dance credits must be evaluated by faculty and the Dance advisor at time of entrance.

Any 24 credit hours from the following 30 hours will be accepted toward the major:

- DAN X610 or DAN X600 (3 credit hours)
- DAN X611 or DAN X601 (3 credit hours)
- DAA X610 (2 credit hours)
- DAA X611 (2 credit hours)
- DAA X680 (2 credit hours)
  - or any lower level Repertory course in the X400-X499 series up to 4 credit hours
- DAA X681 (2 credit hours)
  - or any lower level Repertory course in the X400-X499 series up to 4 credit hours
- DAA X200-X209 (8 credit hours)
  - up to 8 credit hours of any lower-level Ballet Technique courses within the X200-X209 taxonomy
- DAA X100-X109 (8 credit hours)
  - up to 8 credit hours of any lower-level Modern Technique courses within the X100-X109 taxonomy

Please Note: Although credit toward the major will be given for these, placement in upper level technique classes will continue to be based on individual student proficiency.

REQUIREMENTS FOR THE MAJOR IN DANCE

MAJOR REQUIREMENTS FOR THE B.F.A. DEGREE:

RESEARCH OPPORTUNITIES

All undergraduate students in any degree program can participate in undergraduate research. There are a number of options to receive academic credit for a mentored research experience and to have the experience show on the official transcript. Students who wish to enroll in an undergraduate research course should consult with their academic advisor to understand how the credit will apply towards the degree requirements. If no credit is needed, students may be eligible to enroll in the 0-credit IDS 2912, IDS 4914 or IDH 4910 courses. These courses will not impact degree credits or GPA but will show on an official transcript and document the experience. The Office of Undergraduate Research will assist students in understanding the various course options.

ACCREDITATION INFORMATION

The Dance Program is accredited by the National Association of Schools of Dance (NASD).

DANCE FACULTY

Director: M. Powers; Assistant Director: M.L. Morris; Professors: J. Travers; Associate Professors: M. Foley, A. Carroll, A. Scott; Assistant Professors: B. Kohlmyer; Instructors: M.L. Morris, P. Nunez, J. Parks; Academic Advisor: N. Niforos; Professors Emeriti: S. Robinson, G. Warren.
## BALLET (DAB) CONCENTRATION

(CIP = 50.0301)

### REQUIREMENTS FOR THE CONCENTRATION IN BALLET

**TOTAL CONCENTRATION HOURS: 78**

**CONCENTRATION CORE (63-77 HOURS)**

<table>
<thead>
<tr>
<th>Studio Technique (21-35 semester hours):</th>
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<tbody>
<tr>
<td>• DAA 2204 Ballet I</td>
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<tr>
<td>• DAA 2104 Modern Dance I</td>
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<td>• DAA 3214 Ballet II</td>
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<td>• DAA 3108 Modern Dance II</td>
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<td>• DAA 3209 Ballet III</td>
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<td>• DAA 4211 Ballet IV</td>
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<td>• DAA 3294 Ballet Variations</td>
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<td>• DAA 3395 World Dance Topics</td>
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<th>Creative Studio Studies (17 semester hours):</th>
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<tr>
<td>• DAA 3624 Dance Improvisation</td>
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<td>• DAA 3614 Choreography I</td>
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<td>• DAA 3615 Choreography II</td>
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<td>• DAA 4616 Choreography III</td>
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<td>• DAA 4617 Choreography IV</td>
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<td>• DAA 3686 Junior Performance Project</td>
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<td>• DAA 4687 Performance</td>
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<td>• DAA 4694 Senior Choreography Project</td>
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<tr>
<th>Dance Studies (25 semester hours):</th>
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<tr>
<td>• DAN 2160 Entry Seminar</td>
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<td>• DAN 2100 Understanding the Dance Experience</td>
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<td>• DAN 3584 Technical Theatre in Dance</td>
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<td>• DAN 3714 Dance Kinesiology</td>
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<td>• DAN 4434 Laban Movement Analysis</td>
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<td>• DAN 4134 Ballet History</td>
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<td>• DAN 4135 20th Century Dance History</td>
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<td>• DAN 4180 Dance Senior Seminar</td>
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<tr>
<td>• DAE 4340 Dance Pedagogy: Secondary Curriculum</td>
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<td>• DAE 4340L Dance Pedagogy: Internship</td>
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</tbody>
</table>
Concentration Electives (1-15 hours)
Dance Electives: 1-15

COURSE GRADE REQUIREMENT
A grade of C- is the minimum accept grade for each major course.

MODERN DANCE (DAM) CONCENTRATION
(CIP = 50.0301)

REQUIREMENTS FOR THE CONCENTRATION IN MODERN DANCE

TOTAL CONCENTRATION HOURS: 78

CONCENTRATION CORE (61-75 HOURS)

Studio Technique (19-33 semester hours):
- DAA 2204 Ballet I
- DAA 2104 Modern Dance I
- DAA 3214 Ballet II
- DAA 3108 Modern Dance II
- DAA 3109 Modern Dance III
- DAA 4110 Modern Dance IV
- DAA 3395 World Dance Topics

Creative Studio Studies (17 semester hours):
- DAA 3624 Dance Improvisation
- DAA 3614 Choreography I
- DAA 3615 Choreography II
- DAA 4616 Choreography III
- DAA 4617 Choreography IV
- DAA 3686 Junior Performance Project
- DAA 4687 Performance
- DAA 4694 Senior Choreography Project

Dance Studies (25 semester hours):
- DAN 2160 Entry Seminar
- DAN 2100 Understanding the Dance Experience
- DAN 3584 Technical Theatre in Dance
- DAN 3714 Dance Kinesiology
- DAN 4434 Laban Movement Analysis
- DAN 4134 Ballet History
- DAN 4135 20th Century Dance History
COLLEGE OF THE ARTS

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- DAN 4180 Dance Senior Seminar
- DAE 4340 Dance Pedagogy: Secondary Curriculum
- DAE 4340L Dance Pedagogy: Internship

Concentration Electives (3-17 hours)

Dance Electives 3-17

GRADING REQUIREMENT

A grade of C- is the minimum acceptable grade for each major course.

B.S. - MUSIC EDUCATION (MUE)

(CIP = 13.1312)
TOTAL DEGREE HOURS: 134

http://music.arts.usf.edu/content/go/music-education/

Certified Global Pathway Program

The Bachelor of Science (B.S.) in Music Education is designed to prepare students as practitioners in the field. Practical experience is the underlying value in all courses and field experiences. Students receive direct experience with music education philosophies, theories, and practices through course work and laboratory settings, as well as the K-12 schools at all stages in the program. Students' progress towards a robust, semester-long, student-teaching experience and participate in experimental and professional opportunities offered by formal and informal undergraduate and graduate symposia and contemporary consortia. This degree program challenges and prepares students to not only embrace the traditions of music education in the schools, but also to incorporate new potentials for the future.

This program has been certified as a Global Pathway. Global Pathway programs have significant global content and align with the goals of USF's Quality Enhancement Plan, the Global Citizens Project. Students in Global Pathway programs are well positioned to earn the Global Citizen Award and become eligible to apply for a study abroad scholarship offered by the Global Citizens Project.

STATE MANDATED COMMON COURSE 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.

Electives: Music credits beyond those required may be used as program electives.

This is an official state teacher education program. All music education students must demonstrate teaching proficiency upon completion of MUE 2090 in order to continue in the program. Students remain coded as pre-music education (MPE) until all degree admission requirements have been met.

In order to take advanced coursework in the music education program, students must present evidence that they have attained an average of B for three aural theory courses (MUT 1241, 1242, 2246, 2247) and have maintained an overall USF GPA of 3.0. These standards are prerequisites for MUE 3424, 3425, 4311, 4331, 4332, 4936, and 4940. Evidence can be in the form of either an updated USF transcript or a current degree audit report. This information must be presented to the academic advisor before the end of the drop/add week in order to enroll in any of these seven music education courses.
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 X085*
- EDF X005 or MUE X040 *
- EME X040 * or MUE X691 or MUE X693 or MUE X690
- MUT X111 Music Theory or MUT X121
- MUT X112 Music Theory or MUT X122
- MUT X116 Music Theory or MUT X126
- MUT X117 Music Theory or MUT X127
- (MUT X241 Aural Theory and MUT X242 and MUT X246 and MUT X247) or (MUT X221 and MUT X222 and MUT X226 and MUT X227) or (MUT X271 and MUT X272 and MUT X276 and MUT X277)
- MUN XXXX** 4 semester hours
- MVx X1X1 Secondary Applied Music Courses, 2-4 semester hours
- MVx X2X2 Secondary Applied Music Courses, 2-4 semester hours
- Secondary Piano Proficiency by Examination ***

* This course will no longer be required for admission purposes for students anticipating entering teacher education degree programs as a junior Fall 2019 and beyond.

** Varies from Track to Track

*** or (MVK X111 and MVK X112 and MVK X121 and MVK X122) or (MVK X111r and MVK X114 and MVK X121r and MVK X121r and MVK X211 and MVK X221) as needed to achieve piano proficiency.

Please Note: Duplicate courses such as MVK X111r may be repeated up to 4 times.

REQUIREMENTS FOR THE MAJOR IN MUSIC EDUCATION

TOTAL MAJOR HOURS: 92

MAJOR REQUIREMENTS FOR THE B.S. DEGREE:

MAJOR CORE (85 HOURS)

Music Courses (47 credit hours)

- **Music Theory** (9 credit hours)
  - MUT 1111, MUT 1112, MUT 2116
- **Aural Theory** (3 credit hours)
  - MUT 1241, MUT 1242, MUT 2246
- **Keyboard Skills** (0-8 credit hours)
  - MUE 1111 Keyboard Skills for Music Educators I
  - MUE 1121 Keyboard Skills for Music Educators II
    - or MVK 1111, MVK 1125, MVK 2121, MVK 2122 - Proficiency required by testing or course(s)
- **Conducting** (4 credit hours)
  - MUG 3104 Basic Conducting
  - MUG 3108 Advanced Conducting
• **Music History** (11 credit hours)
  - MUH 2020 The History of Blues and Rock or MUH 2051 Folk and Traditional Music of World Cultures
  - MUH 3300 Music History/Medieval and Renaissance
  - MUH 3301 Music History/Baroque and Classic
  - MUH 3302 Music History/Romantic and 20th Century

• **Applied Principal (Studio)** (2 terms each level) (12 credit hours)
  - MVx 131X, 232X, 333X (culminating in junior recital)
  - MUN 3XXX Major Ensemble (concurrent registration with studio) (6 credit hours)
  - Upper division voice principals may take up to one semester of opera as a major ensemble.

• **MUS 2010 Recital Attendance** (attendance at minimum seven (7) programs per semester for five semesters. Must be registered each semester.)

**Professional Education Courses (6 credit hours)**

- TSL 4324 ESOL Competencies and Strategies
- RED 4312 Emergent Literacy Strategies and Assessment

**Music Education (32 credit hours)**

- MUE 2090 Foundations of Music Education
- MUE 3421 Choral Techniques
- MUE 3422 Wind Techniques (taken twice)
- MUE 3423 String Techniques
- MUE 3475 Percussions Techniques or MUN 3443 Percussion Ensemble
- MUE 3414 Creative Performance Chamber Ensemble
- MUE 3424 Progressive Music Education Methods 1
- MUE 3425 Progressive Music Education Methods 2
- MUE 4311 General Music Methods (includes pre-internship)
- MUE 4331 Choral Methods or MUE 4332 Instrumental Methods (includes pre-internship)
- MUE 4936 Senior Seminar in Music Education (taken with Internship)
- MUE 4940 Internship: Music Education [Register for 6 credit hours. 3 hours apply to EXIT Capstone]

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.
MAJOR ELECTIVES (7 HOURS)

Seven (7) credit hours of music electives.

The FTCE (Florida Teacher Certification Exam), which includes the GKT (General Knowledge Test), the PEd (Professional Education Exam), and the SAE (Subject Area Examination in Music) must be taken before entering the internship and successfully completed for the degree and for Florida teacher certification. A copy of the GKT results must be given by the student to the Music Advisor immediately upon receipt.

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 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 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 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.

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.

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.

GPA REQUIREMENTS

The GPA in both specialization courses (music) and professional education courses (music education and education) must be 2.5 in order to graduate.

GRADING REQUIREMENT

The minimum acceptable grade for music, music education, education, and State Communication Requirement (formerly known as Gordon Rule Writing) and State Computation Requirement (formerly known as Gordon Rule Math) courses is "C-:"

Aural theory courses must have an average grade of "B."

All music education courses must be completed with a C- or better. No "S" grades.

OTHER REQUIREMENTS

An application to change from pre-Music Education (MPE) to Music Education (MUE) is necessary for the major to be official. This is available through the Music Advisor’s website and should be submitted to him when MUE 2090, the General Knowledge Test (GKT), and the Aural Theory courses have been completed.
RESEARCH OPPORTUNITIES

All undergraduate students in any degree program can participate in undergraduate research. There are a number of options to receive academic credit for a mentored research experience and to have the experience show on the official transcript. Students who wish to enroll in an undergraduate research course should consult with their academic advisor to understand how the credit will apply towards the degree requirements. If no credit is needed, students may be eligible to enroll in the 0-credit IDS 2912, IDS 4914 or IDH 4910 courses. These courses will not impact degree credits or GPA but will show on an official transcript and document the experience. The Office of Undergraduate Research will assist students in understanding the various course options.

ACCREDITATION INFORMATION

National Association of Schools of Music

OTHER INFORMATION

All-Steinway School

ADVISING INFORMATION

Dr. William Hayden, Academic Advisor: wphayden@usf.edu or FAH 120

MUSIC EDUCATION FACULTY


B.M. - MUSIC PERFORMANCE (MUS)

(CIP = 50.0903)
TOTAL DEGREE HOURS: 120

http://music.arts.usf.edu/content/go/jazz/

The Music Performance degree is a professional degree for students who wish to pursue a career in music. Students interested in a B.M. degree may choose between concentrations in: Performance, Composition, Jazz Studies and Acoustic and Electronic Music. This degree program requires 120 credit hours of study that include private study on the student's principle instrument and participation in ensembles. Additionally, students complete music theory, history and literature sequences, and take additional coursework in their chosen concentration. Graduates from BM programs at USF find themselves in very competitive positions for graduate study and musical careers. Admission into the BM in music degree requires an audition on your major instrument.

STATE MANDATED COMMON COURSE PREREQUISITES

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 General Education 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.

Transfer students are also required to comply with the immunization, foreign language, and continuous enrollment policies of the university.

Students should complete the following prerequisite courses 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 in prerequisite courses.

- MUT X111 or MUT X121
- MUT X112 or MUT X122
- MUT X116 or MUT X126
- MUT X117 or MUT X127
- (MUT X241 and MUT X242 and MUT X246 and MUT X247) or (MUT X221 and MUT X222 and MUT X226 and MUT X227) or (MUT X271 and MUT X272 and MUT X276 and MUT X277)
- MUN XXXX (4 credit hours)
- MVX XX1X (2-4 credit hours)
- MVX XX2X (2-4 credit hours)
- XXX XXXX *
- Secondary Piano - Proficiency by examination **

* Varies from Track to Track

** or (MVK X111 and MVK X112 and MVK X121 and MVK X122) or (MVK X111r and MVK X111r and MVK X121r and MVK X211 and MVK X221) as needed to achieve piano proficiency.

Please Note: Duplicate courses such as MVK X111 may be repeated up to 4 times.

**REQUIREMENTS FOR THE MAJOR IN MUSIC PERFORMANCE**

**REQUIRED SUPPORTING COURSES FOR THE MAJOR: 0 HOURS**

The following courses are prerequisite and supporting courses for this major. They are required for the major, but are not counted in the total hours for this major. The degree will not be awarded if these courses have not been taken by the end of the student's final semester.

MUS 2010 Recital Attendance (0 credit)

All B.M. degree students must register and pass MUS 2010 for six semesters. A passing grade requires a minimum of seven recorded attendances at School of Music concert/recital events each semester.

**MAJOR REQUIREMENTS FOR THE B.M. DEGREE:**

**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.

**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.
GRADING REQUIREMENT

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.

RESEARCH OPPORTUNITIES

All undergraduate students in any degree program can participate in undergraduate research. There are a number of options to receive academic credit for a mentored research experience and to have the experience show on the official transcript. Students who wish to enroll in an undergraduate research course should consult with their academic advisor to understand how the credit will apply towards the degree requirements. If no credit is needed, students may be eligible to enroll in the 0-credit IDS 2912, IDS 4914 or IDH 4910 courses. These courses will not impact degree credits or GPA but will show on an official transcript and document the experience. The Office of Undergraduate Research will assist students in understanding the various course options.

MUSIC PERFORMANCE FACULTY


JAZZ STUDIES (MJP) CONCENTRATION

REQUIREMENTS FOR THE CONCENTRATION IN JAZZ STUDIES

TOTAL CONCENTRATION HOURS: 78

CONCENTRATION CORE (76 HOURS)

- **Music Theory** (16 credit hours):
  - MUT 1111 Music Theory I
  - MUT 1112 Music Theory II
  - MUT 1241 Aural Theory I
  - MUT 1242 Aural Theory II
  - MUT 2116 Music Theory III
  - MUT 2117 Music Theory IV
  - MUT 2246 Aural Theory III
  - MUT 2247 Aural Theory IV

- **Music History** (11 credit hours):
  - MUH 3300 Music History/Medieval and Renaissance
  - MUH 3301 Music History/Baroque and Classical
  - MUH 3302 Music History/Romantic and 20th Century
  - MUH 4801 History of Jazz

- **Conducting** (2 credit hours):
  - MUG 3104 Basic Conducting
• **Senior Seminar** (1 credit hours):
  o MUS 4935 Music Senior Seminar

• **Recital Attendance** (0 credit hours):
  o MUS 2010 Recital Attendance

• **Ensemble** (minimum 8 credit hours):
  o Performance - All students enrolled in Applied Music for two (2) or three (3) credit hours are required to enroll in a Major Ensemble appropriate for their performing medium. A list of approved major ensembles is provided on the Music advising website.

• **Jazz Studies Concentration** (minimum 38 credit hours):
  o Applied music (studio major) through the 4000 level (24 credit hours)
  o MUT 2641 Jazz Theory and Improvisation I
  o MUT 2642 Jazz Theory and Improvisation II
  o MUT 3663 Advanced Jazz Improvisation I
  o MUT 3664 Advanced Jazz Improvisation II
  o MUT 3353 Jazz Composition and Arranging I
  o MUT 3354 Jazz Composition and Arranging II

Concentration Electives (2 hours)
MVJ 2110 Jazz Keyboard Skills (2 credit hours). May be satisfied by proficiency test or by course.

**PERFORMANCE (MPF) CONCENTRATION**
http://music.arts.usf.edu/content/templates/?z=153&a=1070

**REQUIREMENTS FOR THE CONCENTRATION IN PERFORMANCE**

**TOTAL CONCENTRATION HOURS: 48-61**

**CONCENTRATION CORE (45 HOURS)**

• **Music Theory** (22 credit hours):
  o MUT 1111 Music Theory I
  o MUT 1112 Music Theory II
  o MUT 1241 Aural Theory I
  o MUT 1242 Aural Theory II
  o MUT 2116 Music Theory III
  o MUT 2117 Music Theory IV
  o MUT 2246 Aural Theory III
  o MUT 2247 Aural Theory IV
  o MUT 4421 Eighteenth Century Practice
  o MUT 4571 Twentieth Century Practice

• **Music History** (8 credit hours):
  o MUH 3300 Music History/Medieval and Renaissance
  o MUH 3301 Music History/Baroque and Classical
  o MUH 3302 Music History/Romantic and 20th Century
- **Conducting** (2 credit hours):
  - MUG 3104 Basic Conducting

- **Senior Seminar** (1 credit hour):
  - MUS 4935 Music Senior Seminar

- **Recital Attendance** (0 credit hours):
  - MUS 2010 Recital Attendance

- **Major Ensemble** (12 credit hours):
  - Performance Majors – 8 credit hours
  - Composition – 4 credit hours
  - All students enrolled in Applied Music for three (3) or two (2) credit hours are required to enroll in a Major Ensemble appropriate to their performing medium. A list of approved major ensembles is provided on the Music advising website.

**Concentration Electives (3-16 hours)**

0-13 credit hours of music electives.

Music History Elective (3 credit hours):
- Choose One:
  - MUH 4058 Intercultural Music in the Twentieth Century
  - MUH 4801 History of Jazz

**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 Piano Pedagogy I
  - MVK 4641 Piano Pedagogy II
ACOUSTIC & ELECTRONIC COMPOSITION (MUC) CONCENTRATION
http://music.arts.usf.edu/content/go/composition-electronic-music/

REQUIREMENTS FOR THE CONCENTRATION IN ACOUSTIC & ELECTRONIC COMPOSITION

TOTAL CONCENTRATION HOURS: 78

CONCENTRATION CORE (76 HOURS)

- **ACADEMIC STUDIES** (31 credit hours):
  - **Music Theory** (18 credit hours) *[Diagnostic Test administered at first class meeting]*
    - MUT 1111
    - MUT 1112
    - MUT 2116
    - MUT 2117
    - MUT 4421
    - MUT 4571
  - **Aural Theory** (4 credit hours)
    - MUT 1241
    - MUT 1242
    - MUT 2246
    - MUT 2247
  - **Music History** (8 credit hours)
    - MUH 3300 Music History/Medieval and Renaissance
    - MUH 3301 Music History/Baroque and Classic
    - MUH 3302 Music History/Romantic and 20th Century
    - Electives:
      - MUH 2020
      - MUH 2051
      - MUH 4058
      - MUH 4372
      - MUH 4801
    - 0 credit if course taken to satisfy General Education or EXIT
  - **Senior Seminar** (1 credit hour)
    - MUS 4935 Music Senior Seminar ("S/U" grade only)

- **APPLIED STUDIES** (14 credit hours):
  - MUG 3104 Basic Conducting
  - MV? 131X and MV? 232X Applied Major (Studio) [NOTE: 2 terms-each level 8 total credits]
  - MUN 3XXX Major Ensemble*[Concurrent registration with studio is required for 4 total credits]* [NOTE: 4 total credits]
  - MUS 2010 Recital Attendance ("S/U" grade only)
MUSIC COMPOSITION (31 credit hours):
  o Acoustic Music
    ▪ MUC 1211 Freshman Composition and Instrumentation 1
    ▪ MUC 1212 Freshman Composition and Instrumentation 2
    ▪ MUC 2221 Sophomore Composition and Instrumentation 1
    ▪ MUC 2222 Sophomore Composition and Instrumentation 2
    ▪ MUC 3231 Junior Composition and Instrumentation 1
    ▪ MUC 3232 Junior Composition and Instrumentation 2
    ▪ MUC 4241 Senior Composition and Instrumentation
    ▪ MUC 4950 Senior Recital/Project/Portfolio Presentation
  o Electronic Music
    ▪ MUC 2301 Introduction to Electronic Music
    ▪ MUC 3401 Analog Synthesis I
    ▪ MUC 3402 Analog Synthesis II
    ▪ MUC 3441 Digital Synthesis I
    ▪ MUC 3442 Digital Synthesis II
    ▪ MUC 4403 Real-Time Performance I

Concentration Electives (2 hours)

MUSIC ELECTIVES (2 credit hours):
  o Keyboard Skills [piano proficiency at Level 4 required by testing or course(s)]
    ▪ MVK 1111 Keyboard Skills I
    ▪ MVK 1125 Keyboard Skills II
    ▪ MVK 2121 Keyboard Skills III
    ▪ MVK 2122 Keyboard Skills IV
    ▪ Other Music courses

Senior Recital Requirement

The second semester of the senior year is the only semester in the composition sequence that does not require the student to be in a composition class. Instead, students are required to register for Senior Recital (2 credits), which will have a scheduled meeting time (1 hour a week) and syllabus. This meeting time will be student-directed, but one or more composition faculty will be available to help answer questions at the students’ request.

The Senior Recital Requirement consists of the following:
1. Portfolio Presentation (30 percent of final grade)
2. Recital (30 percent of final grade)
3. Participation in the Senior Project Concert (15 percent of final grade)
4. Senior Presentation in Composition Seminar (12 percent of final grade)
5. Composers Orchestra composition (13 percent of final grade)
6. Continued participation in Composition Seminar and Notation Emporium
Portfolio
Portfolios must be presented in final form by Monday, 5:00 PM, the last week of classes. Students will consult with faculty throughout the semester on assembling and fine-tuning the material. Faculty will review the portfolio by the time of final jury (final exam week). The portfolio will consist of the following:

1. A digital archive of all of the student's acoustic and electronic projects created over the 8-semester MUC sequence (this can be presented on the web or in physical copy, e.g. DVD, flash drive, etc.)
2. A database of performances, performers, etc. (hard copy)
3. 3 to 5 scores individually bound and professionally presented (at least one of these scores needs to be for both acoustic instruments and electronic media)
4. A curriculum vitae (hard copy)
5. A 300-word artist's statement (hard copy)

Recital
Seniors are responsible for scheduling, preparing for and presenting a 60-minute concert of their music during their final semester. This recital must take place during the semester that the student is registered for Senior Recital, and it is recommended to be before week 15 to allow time for preparing the video for the portfolio. It is expected to be professionally produced in one of the USF SOM halls, most likely in the Barness Recital Hall. The programming must include works for acoustic instruments, electronic media and work that combines the two. The recital will be assessed on quality of preparation, presentation and professional effectiveness (publicity, draw, archiving, etc.).

Senior Project Concert
Senior composition majors who are registered for Senior Recital will collaborate on and present a concert during the same semester. It will feature music and performances by the seniors primarily, but can involve other performers as well. Unlike the solo senior recital concert, it is required that this concert be off campus. Students have a scheduled meeting time that they can use each week for this purpose. This concert will be assessed on quality of preparation, presentation and professional effectiveness (publicity, draw, archiving, etc.).

Senior Presentation in Composition Seminar
Each senior will give 30-50 minute presentation on their music and issues surrounding it. This can be as a preview to their senior recital. Presentations must be scheduled by week 4, and no presentation will be scheduled after week 14. The presentation will be assessed on content as well as professionalism of presentation.

Composers' Orchestra Composition
Each senior will be required to compose and program a piece written especially for the Composers' Orchestra, an ad-hoc group of performing composition majors assembled for this purpose. The performance may take place in the Senior Recital or Senior Project concert, but it needs to be performed by week 15 at the latest. This final score and recording will be provided with the portfolio in addition to the 3-5 scores of other work.

Composition Seminar and Notation Emporium
Seniors in their final semester are expected to participate in the weekly seminar and emporium. Attendance is required and excessive absences or late arrivals can affect the Senior Recital final grade. (See attendance policy)

The Recital Approval form (available on music advisor's door) must be completed and returned to the advisor.

GRADING REQUIREMENT
C- or better is the minimum grade for all courses; no S grades.
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.

STATE MANDATED COMMON COURSE PREREQUISITES

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 General Education 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.

Transfer students are also required to comply with the immunization, foreign language, and continuous enrollment policies of the university.

Students should complete the following prerequisite courses 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 in prerequisite courses.

- MUT X111 Music Theory or MUT X121
- MUT X112 Music Theory or MUT X122
- MUT X116 Music Theory or MUT X126
- MUT X117 Music Theory or MUT X127
- MUT X241 Aural Theory or MUT X242 or X246 or MUT X247
- MUT X221 or MUT X222 or X226 or X227
- MUT X271 or X272 or X276 or X277
- MUN XXXX 4 semester hours
- MVX XX1X Secondary Applied Music Courses, 2-4 semester hours
- MVX XX2X Secondary Applied Music Courses, 2-4 semester hours
- XXX XXXX *
- Secondary Piano Proficiency by Examination **

* Varies from Track to Track
** or (MVK X111 and MVK X112 and MVK X121 and MVK X122) or (MVK X111r and MVK X111r and MVK X121r and MVK X121r and MVK X211 and MVK X221) as needed to achieve piano proficiency.

Please Note: Duplicate courses such as MVK X111r may be repeated up to 4 times.
REQUIREMENTS FOR THE MAJOR IN MUSIC STUDIES

REQUIRED SUPPORTING COURSES FOR THE MAJOR: 0 HOURS

The following courses are prerequisite and supporting courses for this major. They are required for the major, but are not counted in the total hours for this major. The degree will not be awarded if these courses have not been taken by the end of the student's final semester.

MUS 2010 Recital Attendance (0 credit)

All B.A. students in Music Studies must register and pass MUS 2010 for four semesters. A minimum of seven attendances must be recorded at School of Music concert/recital events each semester.

TOTAL MAJOR HOURS: 46

MAJOR REQUIREMENTS FOR THE B.A. DEGREE:

MAJOR CORE (38 HOURS)

MUSIC CORE

• **ACADEMIC COURSES** (20 credit hours):
  • Music Theory [Diagnostic Test administered at first class meeting]
    - MUT 1111, MUT 1112, MUT 2116*
  • Aural Theory
    - MUT 1241, MUT 1242, MUT 2246*
  • *Jazz Theory
    - MUT 2641 and MUT 2642 may substitute for MUT 2116 and MUT 2246
  • Music History
    - MUH 3300 Medieval and Renaissance
  • Choose 2 of the following 3 courses:
    - MUH 3301 Music History/Baroque and Classic
    - MUH 3302 Music History/Romantic and 20th Century
    - MUH 4801 History of Jazz [recommended for jazz students]

• **APPLIED COURSES** (12 credit hours):
  • Applied Major (Studio)
    - MVX 131X, 232X [2 terms--each level]
  • Major Ensemble
    - MUN 3XXX [concurrent registration with studio is required]
  • Recital Attendance
    - MUS 2010 ["S/U" grade only]

MUSIC EMPHASIS (6 credit hours) - Choose only one:

1. **ACADEMIC STUDIES** [cannot share courses used for Music Electives]
2. Choose two (2) of the following:
   • MUC 2301 Introduction to Electronic Music
   • MUH 2020 The History of Blues and Rock
   • MUH 2051 Folk and Traditional Music of World Cultures
3. APPLIED STUDIES

- Completion of Junior Level (MV? 333X) & Junior Recital
- Two additional terms of major ensemble

MAJOR ELECTIVES (8 HOURS)

Electives: Music credits beyond those required may be used as program electives.

MUSIC ELECTIVES (8 credit hours):

- 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 MUT 3663/3664 are recommended for jazz students.

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.

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.

RESEARCH OPPORTUNITIES

All undergraduate students in any degree program can participate in undergraduate research. There are a number of options to receive academic credit for a mentored research experience and to have the experience show on the official transcript. Students who wish to enroll in an undergraduate research course should consult with their academic advisor to understand how the credit will apply towards the degree requirements. If no credit is needed, students may be eligible to enroll in the 0-credit IDS 2912, IDS 4914 or IDH 4910 courses. These courses will not impact degree credits or GPA but will show on an official transcript and document the experience. The Office of Undergraduate Research will assist students in understanding the various course options.
OTHER INFORMATION

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.

MUSIC STUDIES 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.


B.A. - STUDIO ART (SBA)

(CIP = 50.0701)

TOTAL DEGREE HOURS: 120

http://art.arts.usf.edu/content/templates/?z=162&a=1097

This degree is designed to develop the student's consciousness of aesthetic and ideological aspects of art and its relationship to life. The degree also assists students in the realization of personal ideas, art making skills and imagery. The BA is oriented toward a general and broad immersion in the field. Studio courses are supplemented with studies in art history, foreign language and an abundance of electives both within the School of Art and Art History and throughout the campus. While the BA in Studio Art is not usually the preferred preparation for moving on to the Master of Fine Arts degree, it is quite appropriate for seeking other advanced degrees, especially in the Liberal Arts or other similar programs.

STATE MANDATED COMMON COURSE PREREQUISITES

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 General Education 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.

Transfer students are also required to comply with the immunization, foreign language, and continuous enrollment policies of the university.
Students should complete the following prerequisite courses 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 in prerequisite 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 2201C (Concepts and Practices I) and ART 2203C (Concepts and Practices II) at USF.

- 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
- ARH X050 Art History Survey I
- ARH X051 Art History Survey II
- ART XXXX 6 semester hours of ART courses

**NOTE:** All courses except ARH X050 and ARH X051 require a 'C' or higher.

**REQUIREMENTS FOR THE MAJOR IN STUDIO ART**

**TOTAL MAJOR HOURS: 56**

**MAJOR REQUIREMENTS FOR THE B.A. DEGREE:**

**MAJOR CORE (56 HOURS)**

1. **Art Preparation (18 credit hours):**
   - ARH 2050 History of Visual Arts I*
   - ARH 2051 History of Visual Arts II*
   - ART 2201C Concepts and Practices I**
   - ART 2203C Concepts and Practices II
   - ART 2301C Beginning Drawing
   - ART 3310C Intermediate Drawing or DIG 3119C Digital Drawing

   *History of Visual Arts I can be used to satisfy Information & Data Literacy (TGEI) & History of Visual Arts II can be used to satisfy Human & Cultural Diversity (TGED) under the Enhanced General Education system.

   **Concepts and Practices I can be used to satisfy the Creative Thinking (TGEC) requirement under the Enhanced General Education requirement system.

   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, and ART 2301C or equivalent and ART 3310C or equivalent

2. **Beginning Studio Workshops (12 credit hours):**
   - 2000 Level 2-D Studio (ART 2XXX or PGY 2XXX)
   - 2000 Level 3-D Studio (ART 2XXX)
   - 2000 Level Studio (ART 2XXX or PGY 2XXX)
   - 2000 Level Studio (ART 2XXX or PGY 2XXX)

   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.
3. Intermediate Studio Workshops (12 credit hours):
   - 3000 Level Studio (ART 3XXX or PGY 3XXX or DIG 3XXX)
   - 3000 Level Studio (ART 3XXX or PGY 3XXX or DIG 3XXX)
   - 3000 Level Studio (ART 3XXX or PGY 3XXX or DIG 3XXX)
   - 3000 Level Studio (ART 3XXX or PGY 3XXX or DIG 3XXX)

4. Intermediate or Advanced Level Major Elective (3 credit hours):
   - ART 3XXX or PGY 3XXX or DIG 3XXX or ART 4XXX or PGY 4XXX

5. Art History (9 credit hours):
   - ARH 4450 20th Century Art**
   - ARH 4XXX
   - ARH 4XXX

**ARH 4450 is required of all majors.

ARH 4930 Art History: Selected Topics & ARH 4890 Paris Art History may be taken for degree credit only by approval of the academic advisor for the School of Art and Art History.

6. Additional Requirements (2 credit hours):
   - ART 4940: Extended Studies*

Students are encouraged to take additional credits in the Studio Workshops and Theme Studio Courses to fulfill art electives.

All Students earning a B.A. degree in Studio Art or Art History must complete the Foreign Language Exit Requirement.

GRADING REQUIREMENT

All coursework in the School of Art & Art History must have a grade of C or better to satisfy program requirements.

RESIDENCY REQUIREMENT

A minimum of 50 percent of the total hours required for a degree from the School of Art and Art History must be completed in The School of Art and Art History Tampa campus.

FOREIGN LANGUAGE REQUIREMENT

Any student seeking a B.A. in Studio Art must satisfy the Foreign Language Exit requirement (FLEX).

RESEARCH OPPORTUNITIES

All undergraduate students in any degree program can participate in undergraduate research. There are a number of options to receive academic credit for a mentored research experience and to have the experience show on the official transcript. Students who wish to enroll in an undergraduate research course should consult with their academic advisor to understand how the credit will apply towards the degree requirements. If no credit is needed, students may be eligible to enroll in the 0-credit IDS 2912, IDS 4914 or IDH 4910 courses. These courses will not impact degree credits or GPA but will show on an official transcript and document the experience. The Office of Undergraduate Research will assist students in understanding the various course options.

ADVISING INFORMATION

Rachel Lynch
rhedrick@usf.edu
STUDIO ART FACULTY


Professor Emeritus: Lou Marcus.

B.F.A. - STUDIO ART (SBF)

(CIP = 50.0702 - TRACK 1 OF 2)
TOTAL DEGREE HOURS: 120

http://art.arts.usf.edu/content/templates/?z=162&a=1100

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.

STATE MANDATED COMMON COURSE PREREQUISITES

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 General Education 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.

Transfer students are also required to comply with the immunization, foreign language, and continuous enrollment policies of the university.

Students should complete the following prerequisite courses 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 in prerequisite 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 2201C (Concepts and Practices I) and ART 2203C (Concepts and Practices II) at USF.

- 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
- ARH X050
- ARH X051
- ART XXXX 6 semester hours of ART courses

All courses except ARH X050 and ARH X501 require a 'C' or higher.
REQUIREMENTS FOR THE MAJOR IN STUDIO ART

TOTAL MAJOR HOURS: 82

MAJOR REQUIREMENTS FOR THE B.F.A. DEGREE:

MAJOR CORE (82 HOURS)

1. Art Foundations (18 credit hours):
   - ARH 2050 History of Visual Arts I*
   - ARH 2051 History of Visual Arts II*
   - ART 2201C Concepts and Practices I**
   - ART 2203C Concepts and Practices II
   - ART 2301C Beginning Drawing
   - ART 3310C Intermediate Drawing or DIG 3119C Digital Drawing

   *History of Visual Arts I and II can be used to satisfy Information & Data Literacy (TGEI) & History of Visual Arts II can be used to satisfy Human & Cultural Diversity (TGED) under the Enhanced General Education system.

   **Concepts and Practices I can be used to satisfy the Creative Thinking (TGEC) requirement under the Enhanced General Education system.

2. 2000 Level Studio (12 credit hours):
   - 2000 Level 2-D Studio (ART 2XXX or PGY 2XXX)
   - 2000 Level 3-D Studio (ART 2XXX)
   - 2000 Level Specialization (ART 2XXX or PGY 2XXX)
   - 2000 Level Elective Studio (ART 2XXX or PGY 2XXX)

   These courses may not be repeated. These course are prerequisites to the intermediate-level Studio Courses. Students must take at least one two-dimensional and one three-dimensional beginning studio course.

3. 3000 Level Studio (18 credit hours):
   - 3000 Level Specialization (ART 3XXX or PGY 3XXX or DIG 3XXX)
   - 3000 Level Specialization (ART 3XXX or PGY 3XXX or DIG 3XXX)
   - 3000 Level Specialization (ART 3XXX or PGY 3XXX or DIG 3XXX)
   - 3000 Level Specialization (ART 3XXX or PGY 3XXX or DIG 3XXX)
   - 3000 Level Non-Specialization (ART 3XXX or PGY 3XXX or DIG 3XXX)
   - 3000 Level Elective Studio (ART 3XXX or PGY 3XXX or DIG 3XXX)

4. 4000 Level Studio Specialization* (6 credit hours):
   - 4000 Level Specialization (ART 4XXX or PGY 4XXX)
   - 4000 Level Specialization (ART 4XXX or PGY 4XXX)

   *Note: Advanced Studios in Specialization must be taken sequentially and may not be completed during the same term.

5. Intermediate or Advanced Level Major Elective (6 credit hours):
   - ART 3XXX or PGY 3XXX or DIG 3XXX or ART 4XXX or PGY 4XXX
6. Art History (9 credit hours):
   - ARH 4450 20th Century Art
   - ARH 4475C Contemporary Issues in Art*
   - 4000 Level Period Art History (ARH 4XXX)

* Note: ARH 4450 20th Century Art is a prerequisite for ARH 4475C Contemporary Issues in Art.

ARH 4930 Art History: Selected Topics & ARH 4890 Paris Art History may be taken for degree credit only by approval of the academic advisor for the School of Art and Art History.

7. Additional Requirements (13 credit hours):
   - ART 3939 Real World
   - ART 4940 Extended Studies*
   - ART 4970C Senior Thesis**
   - ART 3618 Technology Essentials for Artists***
   - **Must be taken with the second Advanced Studio in the student’s specialization.
   - ***Note: ART 3618 Technology Essentials for Artists is a prerequisite for ART 3939 Real World.

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.

COURSE GRADE REQUIREMENT

The minimum acceptable grade for major courses in the School of Art and Art History is a "C" grade.

RESIDENCY REQUIREMENT

A minimum of 50 percent of the total hours required for a degree from the School of Art and Art History must be completed in The School of Art and Art History on the Tampa campus.

FOREIGN LANGUAGE REQUIREMENT

If a student has satisfied the FLENT (Foreign Language Entrance) requirement of two years of a single foreign language, there is no further foreign language required for the B.F.A. in Studio Art. If a student has not satisfied the FLENT requirement, he or she must satisfy the FLEX (Foreign Language Exit) requirement of two terms of a single foreign language at the college level or test out of the requirement.

RESEARCH OPPORTUNITIES

All undergraduate students in any degree program can participate in undergraduate research. There are a number of options to receive academic credit for a mentored research experience and to have the experience show on the official transcript. Students who wish to enroll in an undergraduate research course should consult with their academic advisor to understand how the credit will apply towards the degree requirements. If no credit is needed, students may be eligible to enroll in the 0-credit IDS 2912, IDS 4914 or IDH 4910 courses. These courses will not impact degree credits or GPA but will show on an official transcript and document the experience. The Office of Undergraduate Research will assist students in understanding the various course options.

OTHER INFORMATION

The USF School of Art & Art History hosts fully equipped studios in all of these disciplines.

The B.F.A. program in Graphic Design is a limited access program and offered only at USF St. Petersburg. (Juniors and Seniors only)

Transfer credit from other institutions is accepted on the basis of a transcript evaluation. The School of Art & Art History accepts transfer credit from all Florida programs that are part of the "common course prerequisites."
COLLEGE OF THE ARTS

UNIVERSITY OF SOUTH FLORIDA 2019-20 UNDERGRADUATE CATALOG

ADVISING INFORMATION

Rachel Lynch
rheedrick@usf.edu

STUDIO ART FACULTY


B.A. - THEATRE (TAR)

(CIP = 50.0501 TRACK 2 OF 2)
TOTAL DEGREE HOURS: 120

http://theatreanddance.arts.usf.edu/content/templates/?a=84&z=10

Certified Global Pathway Program

Through its curriculum and production program, students have the opportunity to prepare for a professional career in the theatre or to continue their studies at the graduate level. Our exclusively undergraduate program boasts intensive studies in the disciplines of performance, design and theatre arts as well as a close working relationship with our nationally and internationally recognized faculty.

This program has been certified as a Global Pathway. Global Pathway programs have significant global content and align with the goals of USF’s Quality Enhancement Plan, the Global Citizens Project. Students in Global Pathway programs are well positioned to earn the Global Citizen Award and become eligible to apply for a study abroad scholarship offered by the Global Citizens Project.

STATE MANDATED COMMON COURSE PREREQUISITES

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 General Education 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.

Transfer students are also required to comply with the immunization, foreign language, and continuous enrollment policies of the university.

Students should complete the following prerequisite courses 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 in prerequisite courses.

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.

- THE X000 Any introductory course from THE X001-X035 (3 credit hours)
- THE X300 or THE X305 (3 credit hours)
- THE X925 (1 credit hour)
- TPA X290 (1 credit hour)
TPA X200 or TPA X210 (3 credit hours)
- TPP X190 or TPP X110 (3 credit hours)
- Any combination THE, TPA and TPP course (9 credit hours)

REQUIREMENTS FOR THE MAJOR IN THEATRE

TOTAL MAJOR HOURS: 48-57

MAJOR REQUIREMENTS FOR THE B.A. DEGREE:

MAJOR CORE (33 HOURS)

Students may choose one of three areas for the B.A. degree: Performance, Design or Theatre Arts. Common to all is the following core, normally taken in the years indicated:

First Year (14 credit hours):
- THE 2020 Introduction to Theatre
- TPP 2110 Acting I
- TPA 2200 Introduction to Technical Theatre I
- TPA 2290L Technical Theatre Lab I
- TPA 2211 Introduction to Technical Theatre II or TPA 2220 Introduction to Technical Theatre III
- TPA 2291L Technical Theatre Lab II or TPA 2220L Technical Theatre Lab III

Second Year (8 credit hours):
- THE 2305 Script Analysis
- THE 3110 Theatre History I or THE 3111 Theatre History II
- TPA 2292 Production Involvement I
- TPP 2190 Studio Theatre Performance I

Third Year (8 credit hours):
- Choose two Theatre History/Literature Courses from the following list:
  - THE 3110 Theatre History I
  - THE 3111 Theatre History II
  - THE 4174 New British Theatre and Drama
  - THE 4180 Theatre Origins
  - THE 4330 Shakespeare for the Theatre
  - THE 4401 American Drama
  - THE 4434 Caribbean Theatre
  - THE 4480 Drama Special Topics
  - THE 4574 Sport as Performance
  - 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.
- TPA 4293 Production Involvement II
- TPP 4193 Studio Theatre Performance II
Fourth Year (3 credit hours):

- THE 4562 Contemporary Performance Theory

Audition and Portfolio Review: All students desiring admittance into the upper level acting courses must audition and those entering the upper level design sequence must present a portfolio. This normally occurs after the completion of the sophomore year.

RESIDENCY REQUIMENTS

A minimum of 20 credit hours in the major must be earned in residence.

RESEARCH OPPORTUNITIES

All undergraduate students in any degree program can participate in undergraduate research. There are a number of options to receive academic credit for a mentored research experience and to have the experience show on the official transcript. Students who wish to enroll in an undergraduate research course should consult with their academic advisor to understand how the credit will apply towards the degree requirements. If no credit is needed, students may be eligible to enroll in the 0-credit IDS 2912, IDS 4914 or IDH 4910 courses. These courses will not impact degree credits or GPA but will show on an official transcript and document the experience. The Office of Undergraduate Research will assist students in understanding the various course options.

OPTIONAL HONORS PROGRAM

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.

ACCREDITATION INFORMATION

USF is fully accredited by the National Association of Schools of Theatre (NAST).

OTHER INFORMATION

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.

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. 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 Maria Aitken, Peter Barkworth, Bill Bryden, Daniel Chumley, Russel Craig, Matthew Francis, George Froscher, Christopher Fry, John and Lisel Gale, Patrick Garland, Ronald Harwood, Jeff Jones, Rachel Kavanaugh, Sam Mendes, Bob Moody, Eric Overmyer, Louise Page, Estelle Parsons, Olga Petrovna, Roni Pinkovitch, Denis Quilley, Gerlind Reinshagen, L. Kenneth Richardson, Lord Brian Rix, James Roose-Evans, Dorothy Tutin, Robert Wierzel, and Jose Yglesias. These and others have helped the School develop relationships with UMO, London's West End, The Royal National Theatre, The Royal Shakespeare Company, The Actors' Studio, Broadway, San Francisco Mime Troupe, Free Theatre of Munich, The Chichester Festival, The Edinburgh Festival, The Spoleto Festival, Yale Repertory Theatre, and Habimah Theatre in Israel.

THEATRE FACULTY


THEATRE ARTS (TAA) CONCENTRATION

(CIP = 50.0501)

http://theatreanddance.arts.usf.edu/content/templates/?a=80&z=10

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 Technical Theatre, Playwriting, Stage Management, Directing, Literature and Criticism, and more.

REQUIREMENTS FOR THE CONCENTRATION IN THEATRE ARTS

TOTAL CONCENTRATION HOURS: 54

CONCENTRATION CORE (21 HOURS)

- Additional 3 credit hours of TPP Courses
- Additional 18 credit hours of THE; TPA; TPP Courses
  - 9 credit hours must be at the upper level

DESIGN (TAD) CONCENTRATION

(CIP = 50.0501)

http://theatreanddance.arts.usf.edu/content/templates/?a=85&z=10

REQUIREMENTS FOR THE CONCENTRATION IN DESIGN

TOTAL CONCENTRATION HOURS: 57

CONCENTRATION CORE (24 HOURS)

- TPA 3007 Introduction to Design I
- TPA 3008 Introduction to Design II
- TPA 3208 Drafting and CAD I
PERFORMANCE (TAP) CONCENTRATION

(REQUIREMENTS FOR THE CONCENTRATION IN PERFORMANCE)

TOTAL CONCENTRATION HOURS: 58

CONCENTRATION CORE (15 HOURS)

- TPP 2500 Movement for Actors
- TPP 3790 Voice for Actors
- TPP 3155 Acting II
- TPP 4180 Acting III
- TPP 4140 Styles of Acting

Concentration Electives (10 hours)

In addition to the Concentration Core courses, students must take a minimum of 10 hours of performance electives (TPP classes).

MINOR IN ART (ART)

TOTAL MINOR HOURS: 21-24

The School of Art & Art History offers two concentrations for the Minor in Art: Studio and Art History.

REQUIREMENTS FOR THE MINOR IN ART

MINOR CORE (21-24 HOURS)

1. Art Area Preparation (15 credit hours):
   - ARH 2050 History of Visual Arts I
   - ARH 2051 History of Visual Arts II
   - ART 2201C Concepts and Practices I
   - ART 2203C Concepts and Practices II
   - ART 2301C Beginning Drawing

2. Art Studio (9 credit hours):
   - Beginning Studio Workshop (two courses)
   - Intermediate Studio Workshop or Theme Studio (one course)
Art History Concentration (21 credit hours):

1. Art History Preparation (9 credit hours):
   - ARH 2050 History of Visual Arts I
   - ARH 2051 History of Visual Arts II
   - ART 2201C Concepts and Practices I or ART 2203C Concepts and Practices II

2. Art History (12 credit hours):
   - Art History Survey

RESIDENCY REQUIREMENTS

In order to be awarded a minor in either Studio Art or Art History, the student attempting the minor must complete a minimum of 12 credits of the minor in the School of Art and Art History specifically on the USF Tampa campus.

MINOR IN DANCE (DAN)

TOTAL MINOR HOURS: 24

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.

REQUIREMENTS FOR THE MINOR IN DANCE

MINOR CORE (20 HOURS)

Studio Technique (10 credit hours):
Select 10 credits hours from the following list:

- DAA 2204 Ballet I
- DAA 3214 Ballet II
- DAA 3209 Ballet III
- DAA 4211 Ballet IV
- DAA 2104 Modern Dance I
- DAA 3108 Modern Dance II
- DAA 3109 Modern Dance III
- DAA 4110 Modern Dance IV
- DAA 2504 Jazz Dance
- DAA 4930 Dance Studies

- Studio Dance courses may be repeated once toward the Dance Minor.

Creative Studio Studies (4 credit hours):
Select 4 credits hours from the following list:

- DAA 3624 Dance Improvisation
- DAA 3614 Choreography I
- DAA 3615 Choreography II

http://theatreanddance.arts.usf.edu/content/templates/?z=11&a=94
Dance Theory (6 credit hours):
Select 6 credits hours from the following list:
- DAN 2100 Understanding the Dance Experience
- DAN 4134 Ballet History
- DAN 4135 20th Century Dance History

MINOR ELECTIVES (4 HOURS)
4 credit hours of Dance electives.

GRADING REQUIREMENT
The student choosing a Dance minor must achieve a grade of C or better in all courses applied to the minor in Dance.

OTHER INFORMATION
Students must be at a Level II of technique to take DAA 3614 Choreography I.
To attain the dance minor, students must complete at least one semester at the level II of technique (ballet or modern).
Students must complete at least one semester of both ballet and modern.

MINOR IN THEATRE (TAR)
TOTAL MINOR HOURS: 23
http://theatreanddance.arts.usf.edu/content/templates/?z=10&a=86

The Theatre minor is structured to give students an overview of drama and theatre, in terms of history, performance, and criticism. The curriculum involves the student in both the practical and theoretical aspects of the theatre process. The minor offers ample opportunities for students to apply their skills onstage and/or backstage.

REQUIREMENTS FOR THE MINOR IN THEATRE

MINOR CORE (16 HOURS)
- THE 2020 Introduction to Theatre
- TPP 2110 Acting I
- TPP 2190 Studio Theatre Performance I
- TPA 2292 Production Involvement I
- TPA 2200 Introduction to Technical Theatre I
- TPA 2290L Technical Theatre Lab I
- TPA 2211 Introduction to Technical Theatre II or TPA 2220 Introduction to Technical Theatre III
- TPA 2291L Technical Theatre Lab II or TPA 2220L Technical Theatre Lab III

MINOR ELECTIVES (7 HOURS)
A minimum of seven (7) credits hours chosen from courses with the following prefix: THE; TPP; TPA and with the approval of the advisor.
All audition and portfolio requirements apply.

RESIDENCY REQUIREMENT
A minimum of 12 credits must be taken in the USF School of Theatre & Dance.
CERTIFICATE IN ADVANCED DANCE STUDIES

TOTAL CERTIFICATE HOURS: 12
http://theatreanddance.arts.usf.edu/content/go/dance/

This certificate is designed for students who possess a strong background in dance technique (ballet/modern). It is meant for individuals who would like to heighten their studies in dance and earn advanced level training.

REQUIREMENTS FOR THE CERTIFICATE IN ADVANCED DANCE STUDIES

Students are required to take 12 credit hours composed of the course options below. At least one semester of either Ballet IV or Modern Dance IV is required.

CERTIFICATE CORE (3 HOURS)

- DAA 4211 Ballet IV or DAA 4110 Modern Dance IV

CERTIFICATE ELECTIVES (9 HOURS)

Students choose nine credit hours of coursework from the following list of courses:

- DAA 3109 Modern Dance III
- DAA 3209 Ballet III
- DAA 3624 Dance Improvisation
- DAA 3294 Ballet Variations (PR: DAA 3209 Ballet III)
- DAA 4110 Modern Dance IV
- DAA 4211 Ballet IV
- DAA 4687 Performance
- DAA 4930 Dance Studies (approved in advance by the Dance advisor)

Note: Ballet and Modern classes may be repeated.

COURSE GRADE REQUIREMENT

A grade of B- or higher in all courses is required.

RESIDENCY REQUIREMENT

A minimum of six credit hours of coursework taken at USF Tampa is required to meet residency requirements.

OTHER REQUIREMENTS

Students must audition for placement through the dance program and place into at least the level III of ballet or modern in order to qualify to pursue the certificate.

OTHER INFORMATION

Any degree-seeking student not currently majoring in Dance B.F.A. or B.A. or any non-degree seeking student may pursue the Advanced Dance Studies certificate.

ADVISING INFORMATION

Intent to pursue the certificate should be discussed with the academic advisor for Dance, Nadine Niforos via email at nniforos@usf.edu or 813-974-1739.
The Certificate in Art History is designed for undergraduate students majoring in another field who also seek a concentration in art history. This certificate constitutes a sequence of five art history courses (15 credit hours) that provides students with a broad introduction to the field of art history.

**REQUIREMENTS FOR THE CERTIFICATE IN ART HISTORY**

**CERTIFICATE CORE (6 HOURS)**
- ARH 2050 History of Visual Arts I
- ARH 2051 History of Visual Arts II

**CERTIFICATE ELECTIVES (9 HOURS)**
Students choose nine credit hours of coursework from the following list of courses:
- ARH 4170 Greek and Roman Art
- ARH 4200 Medieval Art
- ARH 4301 Renaissance Art
- ARH 4310 Early Italian Renaissance
- ARH 4312 Late Italian Renaissance
- ARH 4333 Northern Renaissance Art
- ARH 4350 Baroque and Rococo Art
- ARH 4430 Nineteenth Century Art
- ARH 4450 Twentieth Century Art
- ARH 4475C Contemporary Issues in Art
- ARH 4520 African Art
- ARH 4530 Asian Art
- ARH 4571 Themes in Islamic Art and Architecture

**GPA REQUIREMENTS**
A cumulative GPA of 2.5 in the certificate coursework is required.

**COURSE GRADE REQUIREMENT**
Courses must be taken on a letter-grade basis. The minimum acceptable grade for each course for the certificate is a C.

**OTHER REQUIREMENTS**
Students may substitute their last three hours in the certificate curriculum (their final art history course) for any art history seminar: ARH 4800.
CERTIFICATE IN BUSINESS AND ART

TOTAL CERTIFICATE HOURS: 12

The Certificate in Business and Art provides for the analysis and hands-on implementation of applied, innovative arts projects and business practices for all majors interested in maximizing creative problem solving with the integration of marketing and finance development in order to realize long-term strategies. A key outcome is the ability for artists and business graduates to effectively communicate and collaborate across disciplines too often considered as opposites. Both creativity and the understanding of fundamental business practices are essential to everyone in the future, regardless of fields of study, work and engagement.

REQUIREMENTS FOR THE CERTIFICATE IN BUSINESS AND ART

CERTIFICATE CORE (6 HOURS)

- ENT 3003 Principles of Business in Entrepreneurship
- ART 2201C Concepts and Practices

CERTIFICATE ELECTIVES (6 HOURS)

Select one Business course and one Art course from the below list of courses:

- Business:
  - FIN 2100 Personal Finance
  - MAR 3023 Basic Marketing

- Art:
  - ARH 2000 Art and Culture
  - ART 2301C Beginning Drawing
  - ART 3612C Beginning Video, Animation and Digital Arts

GPA REQUIREMENTS

A cumulative GPA of 2.5 in the certificate coursework is required.

GRADING REQUIREMENT

Courses must be taken on a letter-grade basis. The minimum acceptable grade for each course for the certificate is a C (not a C-).

OTHER REQUIREMENTS

This certificate is only for degree seeking students in any major.
CERTIFICATE IN DANCE MEDICINE AND SCIENCE

TOTAL CERTIFICATE HOURS: 18

http://theatreanddance.arts.usf.edu/content/go/dance/

This certificate is designed for students who are degree-seeking (any major) OR non-degree seeking and who possess a strong interest in exploring the field of dance medicine/science. This certificate program will give students a basic understanding of issues pertaining to the wellness of dancers such as: typical injury and misalignment patterns, injury prevention and treatment, injury risk factors, effective conditioning, muscular analysis of dance movement, and current topics in dance medicine/science research. Undergirding this specialized study are support courses which address the structure and function of the musculo-skeletal system as well as the mechanical principles related to motor performance, the physiological effects of exercise, nutrition, and principles of motor development and skill acquisition. The capstone experience will be undertaken in the Research in Dance II course where students will review a variety of research in the dance medicine/science field and will complete a research project exploring a relevant topic in the field. Students who are dance majors, health science majors, exercise science majors, or physical education majors interested in dance medicine/science, are encouraged to apply. Other majors are also welcome. Students are required to take 18 credit hours composed of the courses below. Intent to pursue the certificate should be discussed with the academic advisor for dance.

REQUIREMENTS FOR THE CERTIFICATE IN DANCE MEDICINE AND SCIENCE

CERTIFICATE CORE (12 HOURS)

- DAN 3714 Dance Kinesiology
- BSC 2085* Anatomy and Physiology I for Nursing and other Healthcare Professionals
- BSC 2085L* Anatomy and Physiology Lab I for Nursing and other Healthcare Professionals**
- DAN 4162 Research in Dance I
- DAN 4163 Research in Dance II

CERTIFICATE ELECTIVES (6 HOURS)

Students choose six credit hours of coursework from the following list of courses:

- PET 3312 Biomechanics
- PET 3031 Motor Behavior
- PET 3361 Nutrition for Fitness and Sport***
- APK 3120 Exercise Physiology
- ATR 2010C Care and Prevention of Physical Injuries
- BSC 2086* Anatomy and Physiology II for Nursing and other Healthcare Professionals
- BSC 2086L* Anatomy and Physiology Lab II for Nursing and other Healthcare Professionals**
- HUN 2201 Nutrition
- HLP 2081 Personal Wellness: A Lifetime Commitment

*Anatomy and Physiology I and II for Nursing and other Healthcare Professionals with lab are required as prerequisites for these courses. Non-major and major sections (for Exercise Science majors) of these courses are offered in alternating semesters.

**This course is restricted to health professions majors but open to other USF students pending space availability. Anatomy and Physiology transfer courses will also be accepted to meet this requirement. Special consideration for registration access will be given to students in the dance medicine certificate program.

***Exercise Science majors only. Permission may be granted on a case-by-case basis, pending space availability and instructor approval.
COURSE GRADE REQUIREMENT
A grade of C+ or higher in all courses is required.

RESIDENCY REQUIREMENT
A minimum of nine (9) credit hours of coursework taken at USF Tampa is required to meet residency requirements.

OTHER REQUIREMENTS
The Research in Dance courses should generally be taken last in the course sequence. Electives may be taken concurrently with the Research in Dance courses. Ideally, the student should take the Research in Dance II course last as it involves a capstone research experience.

OTHER INFORMATION
Any degree-seeking student or any non-degree seeking student may pursue the Dance Medicine/Science certificate.

ADVISING INFORMATION
Intent to pursue the certificate should be discussed with the academic advisor for Dance, Nadine Niforos via email at nniforos@usf.edu or 813-974-1739.

CERTIFICATE IN ELECTRICAL ENGINEERING, DIGITAL DESIGN, AND THE ARTS

TOTAL CERTIFICATE HOURS: 12
The union of arts and engineering has emerged as a significant intellectual, commercial and educational concept and has sparked creative new programs across the planet. The USF Electrical Engineering, Digital Design, and The Arts Certificate is for undergraduate students who are interested in this union, and exploring the overlapping areas of electrical engineering technology and the visual arts. These innovative products and systems are unique and have value because of their form and function – think smartphones and watches, self-guiding vehicles and interactive multimedia. The goal of the four-course EE-Arts Certificate is to provide a path of increasing exposure to and understanding of this powerful combination, with intensive hands-on experience. Professionals skilled in this field have careers in product design, high technology manufacturing, animation/modeling, interactive game design, robotics, package design, and industrial design.

REQUIREMENTS FOR THE CERTIFICATE IN ELECTRICAL ENGINEERING, DIGITAL DESIGN, AND THE ARTS

CERTIFICATE CORE (12 HOURS)
- ART 2201C Concepts and Practices I
- ART 3610C Digital Modeling
- EEL 3924 Makecourse-Art: Leonardo in the New Millennium
- EGN 3060 Mechatronics for Innovation

GPA REQUIREMENTS
A cumulative GPA of 2.5 in the certificate coursework is required.

COURSE GRADE REQUIREMENT
The minimum acceptable grade for each course for the minor is a C (not a C-).

GRADING REQUIREMENT
Courses must be taken on a letter-grade basis.
OTHER REQUIREMENTS

It is highly recommended that students successfully complete:

- ART 2201C prior to enrolling in ART 3610C.
- EEL 3924 prior to enrolling in EGN 3060.

Students must complete an FKL general education math course prior to enrolling in EEL 3924 and/or EGN 3060.

This certificate is offered for degree-seeking students only.

CERTIFICATE IN VISUALIZATION AND DESIGN

TOTAL CERTIFICATE HOURS: 18

The Certificate in Visualization and Design provides theoretical studies and hands-on practice for all majors interested in the creative design of visual communication. Outcomes include building a portfolio from a variety of visual media and prepares those who complete the certificate for fields (depending on course selections) ranging from media designers, to animators, to research and product designers, to graphic/data developers.

REQUIREMENTS FOR THE CERTIFICATE IN VISUALIZATION AND DESIGN

CERTIFICATE CORE (6 HOURS)

Required courses (6 credit hours):

- ART 2201C Concepts and Practices I
- VIC 3001 Introduction to Visual Communications

CERTIFICATE ELECTIVES (12 HOURS)

Art Electives (select two courses - 6 credit hours)

- ART 2301C Beginning Drawing
- ART 3612C Beginning Video, Animation and Digital Arts
- ART 3613C Live Action Filmmaking
- ART 3616C 2D Animation
- PGY 2401C Beginning Photography
- PGY 3410C Intermediate Photography

Mass Communication Electives (select two courses - 6 credit hours)

- ADV 2214 Graphic Programs in Communication
- ADV 4710 Portfolio Building
- JOU 4212 Magazine Design and Production
- MMC 4936 Selected Topics in Mass Communications Studies*:
  - Graphics in Visual Communication
  - Visualization of Big Data
  - Visual Analytics

*“FR” indicates that the course may be repeated for credit.
• PGY 3610C Photojournalism I
• PUR 4101 Public Relations Design and Production
• VIC 3943 Visual Communication Practicum

*Students must get pre-approval from Kevin Hawley (kevinhawley@usf.edu) for any MMC 4936 topic not listed above that they intend to utilize toward the certificate.

This certificate is offered for degree-seeking students only.
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Undergraduate Studies

Contact Information

Undergraduate Studies
4202 E. Fowler Avenue, SVC 2002
Tampa, FL 33612
(813) 974-4051
ugs-dean@usf.edu
https://www.usf.edu/undergrad/

Physical Location: Student Services building (SVC) located in the center of the USF campus.

About the Office of Undergraduate Studies

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.

Undergraduate Studies provides strong set of student success focused departments and initiatives 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 myriad 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.

Mission, Vision, Values

Our goal is to help ensure that students graduate from the University of South Florida with a world-class education, in a timely fashion, confident in the skills and knowledge they need to succeed in their post-baccalaureate careers, and with the conviction that enrolling at USF was the best decision of their lives. All departments within Undergraduate Studies (UGS) are focused squarely on helping USF meet its Strategic Plan goals.

Undergraduate Studies shares these key values with the greater University of South Florida community:

- High-quality education and excellence in teaching and learning
- Diversity of students, faculty, and staff
- Affordable and accessible education
- Community engagement and public service
- Focus and discipline in aligning the budget with institutional priorities
- A campus life with broad academic, cultural, and athletic opportunities
- Success and achievement of its students, faculty, staff, and alumni
- Collegiality, academic freedom, and professional responsibility
- Efficiency and transparent accountability
Bachelor of General Studies (BGS) Admission Requirements
https://www.usf.edu/undergrad/programs/bgs/application.aspx

In order to be admitted into the Bachelor of General Studies (BGS) program, applicants must:

- Have completed 60 or more credits at a regionally accredited college or university.
- Have a break in education of three years or more.
- Complete a screening process conducted by a program advisor.
- Be in good standing with most recent former educational institution.
- Demonstrate ability and desire to complete the degree (personal statement).
- Be a mature, non traditional students/work experience.
- Meet USF general admissions standards for transfer students (2.3 GPA for out of state transfer students).
- Be pursuing first bachelor degrees (BGS is not an option for students seeking a second bachelor degree).

Bachelor of Science in Applied Science (BSAS) Admission Requirements

Students admitted to the BSAS must have a completed A.S. degree from a public Florida community or state college and will have completed a minimum of 18 credit hours of transferable General Education coursework, which should include writing and math courses that meet Gordon Rule requirements.

- A completed Associate of Science (A.S.) degree from a Florida public community or state college.
- At least 18 credit hours of transferrable general education coursework.
- Successful completion of ENC 1101 or equivalent English composition courses.
- Successful completion of at least one college-level math or quantitative reasoning.**

** MAT 1033 is not considered college-level math

Baccalaureate-Level Degree Programs

Bachelor of General Studies (B.G.S.)
https://www.usf.edu/undergrad/programs/bgs/index.aspx

The Bachelor of General Studies is a degree completion program that provides nontraditional students options for completing their educational goals. USF’s Bachelor of General Studies Degree (B.G.S.) is a customized, interdisciplinary degree that allows students to choose an academic program that fits their educational and professional goals.

The following concentrations are available for the B.G.S. degree:

- Aging Sciences
- Architecture (no longer accepting new admits)
- Behavioral Healthcare
- Business
- Computer Systems Technology
- Criminal Justice
- Educational Foundations
Bachelor of Science in Applied Science (B.S.A.S.)
https://www.usf.edu/undergrad/programs/bsas/index.asp

The B.S.A.S. degree program designed specifically for Associate in Science (A.S.) degree graduates from a Florida public community or state college. The B.S.A.S. degree is designed to serve Florida's A.S. graduates who desire a bachelor's degree for self-enrichment, advancement in their current career or to qualify for higher-level employment in other settings. A.S. graduates looking for a flexible Bachelor's degree program will find the BSAS degree recognizes the value of academic work already completed. Most students are able to complete their concentrations and exit requirements within an additional 60 credit hours.

USF will award up to 60 transfer credits from the A.S. degree (applicable only to the BSAS program). Up to 42 hours of technical coursework may be eligible for transfer into the B.S.A.S. program. The remaining 18 credit hours of transferable General Education coursework from the A.S. will be matched against USF requirements to determine which courses remain outstanding for the fulfillment of the University's 36 credit hour General Education (Foundations of Knowledge & Learning) requirements.

The following concentrations are available for the B.S.A.S. degree:

- Aging Sciences
- Behavioral Healthcare
- Computer Systems Technology
- Criminal Justice
- Environmental Policy
- Information Architecture: Information Studies
- Public Administration
- Public Health
- Urban Studies

Exploratory Curriculum

The Exploratory Curriculum Major (ECM) allows USF students to register for up to 36 credit hours before they must officially declare a major. During this time they will focus on satisfying the 2019-2020 State and USF General Education requirements, which are needed for any major at USF. These courses are a great way to learn about career fields and academic disciplines that students may not be familiar with yet.

The cornerstone of the Exploratory Curriculum (ECM) program is the customized SLS 2901 course entitled U-Decide, a first-year experience course with a significant major/career exploration component. The goal of the course and the entire ECM program is to equip our students with the ability to make their own decisions regarding their future, both now at USF and far into their future. The economic and career landscape is always changing, and this new generation of students needs to be able to adapt at a much higher rate than previous generations.

PROGRAM REQUIREMENTS

The only program requirement for the Exploratory Curriculum Major (ECM) is the registration and completion of the mandatory SLS 2901 U-Decide course during a students’ first Fall or Spring semester. The course is not offered during any Summer semesters.
PROGRAM ADMISSION INFORMATION

To be admitted to the Exploratory Curriculum Major (ECM), a student should be at or below 36 college credits at the time of orientation. If a student is in AP, IB, Dual Enrollment, AICE or any other college credit accruing program in high school, please reach out to the Exploratory advisor for further options. You can reach the ECM advisor at ECMadvise@usf.edu.

EXPLORATORY CURRICULUM TRACKS

- Math, Engineering & Technology
- Business
- Arts & Humanities
- Health & Natural Sciences
- Global & Social Sciences

ADVISING INFORMATION

College of Undergraduate Studies
Student Services Building (SVC) 2002
(813) 974-2645
ECMadvise@usf.edu

Minors

Aerospace Studies
https://www.usf.edu/undergrad/programs/minors/aerospace-studies.aspx

This program will provide the student an understanding of management and leadership concepts as they relate to military officers.

Leadership Studies

The program has a unique approach to leadership education that combines practical theories and opportunities for students to study the characteristics of authority, leadership, social and role dynamics, political processes and the values that orient their careers.

Military Leadership
https://www.usf.edu/undergrad/programs/minors/military-science.aspx

This minor lays out a leadership framework that allows students to apply leadership concepts learned in the classroom.

Naval Science and Leadership

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.

Associate of Arts

https://www.usf.edu/undergrad/programs/aa-certificate.aspx

Students must apply for the Associate of Arts (AA) it is not automatically awarded. Students can apply for the AA by going to their OASIS account and clicking the "Student Tab" 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.

To receive the Associate of Arts at USF, a student must:

- Complete 60 semester hours of university credit; at least 20 of the last 30 semester hours counted, or 36 hours overall, must be completed in residence at the home institution of USF. Physical education and military science credits do not count within the 60 semester hours toward the Associate of Arts.
• Achieve a minimum grade point average of 2.00 based on work attempted at USF. In addition, a transfer student must have a GPA of 2.00 or higher when combined with transfer work accepted and evaluated by the USF Office of Admissions.
• Complete the General Education Requirements.
• Meet the Foreign Language Entrance Requirement (FLENT).
• Fulfill the State Communication and Computation requirements.

Undergraduate Advising Information

Contact Information

Undergraduate Studies
Academic Programs
4202 E. Fowler Avenue, SVC 2002
Tampa, FL 33612
(813) 974-4051
https://www.usf.edu/undergrad/programs/ugs-degree-programs-staff.aspx

Please be sure to contact/schedule appointments with your specific USF college advisor. Questions related to your specific major should be directed to the appropriate advising contacts. The Undergraduate Studies Advisors specialize in the BSAS and BGS degrees, and cannot advise on other majors.

To make a face-to-face appointment with an Academic Advisor:

• If you are an accepted or currently registered student at USF, use escheduler at https://usfweb.usf.edu/escheduler/student.aspx (requires login).
• If you ARE NOT a USF student, use the advisor appointment system at https://usfweb.usf.edu/escheduler/NonStudentlogin.aspx
B.S.A.S. - APPLIED SCIENCE (APS)

(CIP = 24.0102)

TOTAL DEGREE HOURS: 120

http://www.usf.edu/undergrad/programs/bsas/

Workforce projections for the 21st Century indicate that there will be an ongoing need for people with specific skills and abilities to fill Florida’s growing number of specialized, scientific, industrial and technological positions. Florida’s two-year colleges offer many exceptional programs that meet these demands through their Associate in Science (A.S.) degrees. Although these applied and technical degrees provide excellent preparation for students seeking jobs that require specific knowledge, skill and ability, they have not generally transferred very efficiently into four-year Bachelor’s degree programs. The Bachelor of Science in Applied Science (B.S.A.S.) has been developed by USF under certain provisions of Florida legislation to remove constraints from the transfer process, recognize past coursework as transferable credit to the university, and afford exciting new opportunities for those with an A.S. degree from a Florida public institution to pursue and acquire a distinctive USF Bachelor’s degree.

The B.S.A.S. program is a "capstone" degree offering A.S. degree holders an efficient pathway to a Bachelor’s degree. It provides Florida Public community and state college 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, B.S.A.S. students will plan their program in ongoing consultation with an academic advisor who will help students design their individualized program of study.

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<th>Coursework</th>
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<td>Community or State College Technical Credits Transfered from the A.S. Degree</td>
<td>42</td>
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<td>Community or State College General Education Credits Transfered from the A.S. Degree</td>
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<tr>
<td>USF General Education Credits</td>
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<td>USF Area of Concentration Credits Required Credits for the Concentration (21 credit hours)</td>
<td>24</td>
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<tr>
<td>USF EXIT Capstone Course (3 credit hours)</td>
<td></td>
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<tr>
<td>USF EXIT Writing Intensive Course</td>
<td>3</td>
</tr>
<tr>
<td>USF Electives Credits*</td>
<td>15</td>
</tr>
<tr>
<td>Total Credit Hours Required for the Degree:</td>
<td>120</td>
</tr>
</tbody>
</table>

*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., B.S.A.S. students will complete:

- A minimum of 42 credit hours of upper-level (3000-4999) courses
- Foreign language requirement (can be satisfied by two years of high school foreign language credit or 8 college credit hours in a single foreign language) Note: ASL 2140C Basic American Sign Language and ASL 2150C Intermediate American Sign Language may be substituted to meet this requirement.

Students may not pursue the Bachelor of Science in Applied Science as a second major, concurrent degree, dual degree, or second or post-baccalaureate degree. Baccalaureate degree holders who wish to pursue further education are encouraged to pursue admission into a graduate degree program of study.
STATE MANDATED COMMON COURSE PREREQUISITES

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

Students wishing to transfer to USF must complete an A.S. degree (from a Florida public state or community college) with a minimum overall 2.0 GPA in all college-level courses accepted for transfer credit to USF, with no grade lower than C-. Students should complete at least 18 credit hours of the general education requirements as part of their A.S. degree, which should include the State Communication Requirement and State Computation Requirement courses to fulfill these requirements while at the community or state college. Students must complete ENC 1101 and at least one college-level math course to be admitted into the Applied Science program.

USF will award up to 60 transfer credits from the A.S. degree (applicable only to the B.S.A.S. program). Up to 42 hours of technical coursework may be eligible for transfer into the B.S.A.S. program. The remaining 18 credit hours of transferable General Education coursework from the A.S. will be matched against USF requirements to determine which courses remain outstanding for the fulfillment of the University's 36 credit hour General Education requirements.

REQUIREMENTS FOR THE MAJOR IN APPLIED SCIENCE

TOTAL MAJOR HOURS: 24-25

MAJOR REQUIREMENTS FOR THE B.S.A.S. DEGREE:

MAJOR CORE (3 HOURS)

USF Capstone EXIT Requirement:

- IDS 4934 Senior Capstone for B.S.A.S./B.G.S.

Upon acceptance to the B.S.A.S. major, students will complete the necessary coursework to reach 120 credit hours. The 120 credit hour requirement includes completing the following:

- USF Enhanced General Education requirements (based on your assigned catalog year) or approved equivalents - unless General Education credits were completed at another Florida institution.
- All USF exit requirements.
- Foreign Language Requirement.

- One disciplinary concentration selected by the student and approved by the advisor.
- A minimum of 42 semester hours of upper-level work (courses numbered 3000 and above).

GRADING REQUIREMENT

A minimum grade of C- or better must be attained in each concentration course.

RESIDENCY REQUIREMENT

At least 30 of the last 60 credit hours must be earned at USF Tampa.

FOREIGN LANGUAGE REQUIREMENT

Foreign language requirement (can be satisfied by two years of high school foreign language credit or 8 college credit hours in a single foreign language) Note: ASL 2140C Basic American Sign Language and ASL 2150C Intermediate American Sign Language may be substituted to meet this requirement.

RESEARCH OPPORTUNITIES

All undergraduate students in any degree program can participate in undergraduate research. There are a number of options to receive academic credit for a mentored research experience and to have the experience show on the official transcript. Students who wish to enroll in an undergraduate research course should consult with their academic advisor to understand how the credit will apply towards the degree requirements. If no credit is needed, students may be eligible to enroll in the 0-credit IDS 2912, IDS 4914 or IDH 4910 courses. These courses will not impact degree credits or GPA but will show on an official transcript and document the experience. The Office of Undergraduate Research will assist students in understanding the various course options.
OTHER INFORMATION

The following BSAS Areas of Concentration are offered fully or partially online:

- Criminal Justice (fully online)
- Environmental Policy (partially online)
- Information Studies: Information Architecture (fully online)
- Public Administration (fully online)
- Public Health (fully online)
- Urban Studies (partially online)

ADVISING INFORMATION

Office of Undergraduate Studies (UGS)

Location/Phone: Student Services Building (SVC) 2002; (813) 974-4051

Website: [http://www.usf.edu/undergrad/programs/bsas/](http://www.usf.edu/undergrad/programs/bsas/)

AGING SCIENCES (AASC) CONCENTRATION

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

REQUIREMENTS FOR THE CONCENTRATION IN AGING SCIENCES

TOTAL CONCENTRATION HOURS: 24

CONCENTRATION CORE (12 HOURS)

- GEY 2000 Introduction to Aging Sciences
- GEY 3601 Physical Changes and Aging
- GEY 3625 Sociological Aspects of Aging
- GEY 4612 Psychology of Aging

Concentration Electives (9 hours)

Choose nine (9) credit hours from the following list of courses:

- GEY 3503 Administration of Assisted Living Facilities
- GEY 4101 Aging in Special Populations
- GEY 4102 Aging in Modern Literature and Film
- GEY 4231 Elder Abuse and Neglect
- GEY 4322 Care Management for Older Adults
- GEY 4360 Counseling for Older Adults
- GEY 4608 Alzheimer's Disease Management
- GEY 4628 Health, Ethnicity, and Aging
- GEY 4629 Women and Aging
Behavioral health problems, including mental illness and substance abuse, are among the greatest public health challenges facing our communities. Students enrolling in the BSAS Behavioral Healthcare concentration will be exposed to treatment approaches as well as to issues related to the organization, financing, delivery, and outcomes of behavioral health services. Combining academic and experiential learning, the concentration provides students with information and practical experience in behavioral healthcare services.

REQUIREMENTS FOR THE CONCENTRATION IN BEHAVIORAL HEALTHCARE

TOTAL CONCENTRATION HOURS: 21

CONCENTRATION CORE (18 HOURS)

Concentration Requirements:

- *MHS 3411 Multidisciplinary Behavioral Healthcare Services
- MHS 4002 Behavioral Health Systems Delivery
- **MHS 4022 Adult Psychopathology in the Community or **MHS 4490 Behavioral Healthcare Issues for Children
- MHS 4408 Exemplary Practices in Behavioral Healthcare Treatment
- MHS 4703 Legal, Ethical and Professional Issues in BHC
- MHS 4723 Professional Seminar in Behavioral Healthcare

*MHS 3411 should be taken during student's first semester of concentration coursework; a minimum grade of "B-" is required.

**Note: MHS 4022 (for students with an interest in working with adults), MHS 4490 (for students with an interest in working with children).

Concentration Electives (3 hours)

Choose three (3) credit hours from the following list of courses:

- MHS 3204 Fundamentals of Applied Behavior Analysis or CLP 4414 Behavior Modification
- MHS 4023 Recovery-Oriented Mental Health Services
- MHS 4074 Child Development and Trauma
- MHS 4203 Practical Skills-Children's Behavioral Healthcare
- MHS 4425 Field Experience in Behavioral Healthcare
- MHS 4434 Behavioral Health and the Family
- MHS 4452 Co-Occurring Disorders
- MHS 4463 Suicide Issues in Behavioral Health
- MHS 4731 Writing for Research and Publication in Behavioral and Community Sciences
- MHS 4741 Applied Research Methods
- MHS 4931 Selected Topics
COURSE GRADE REQUIREMENT

- MHS 3411 should be taken during student’s first semester of concentration coursework; a minimum grade of “B-” is required.
- MHS 4022 (for students with an interest in working with adults)
- MHS 4490 (for students with an interest in working with children)

CRIMINAL JUSTICE (ACJ) CONCENTRATION

The Criminal Justice concentration provides students with an exposure to the criminal justice system including law enforcement, detention, the judiciary, corrections, and probation and parole. The objective of the concentration in Criminal Justice is to develop a sound educational basis either for graduate work or for professional training in one or more of the specialized areas comprising the modern urban criminal justice system.

REQUIREMENTS FOR THE CONCENTRATION IN CRIMINAL JUSTICE

TOTAL CONCENTRATION HOURS: 24

CONCENTRATION CORE (6 HOURS)

- CCJ 3117 Theories of Criminal Behavior
- CCJ 3024 Survey of the Criminal Justice System

Concentration Electives (15 hours)

Choose fifteen (15) credit hours of upper-level Criminal Justice courses with the following prefixes: CCJ, CJE, CJC, or CJL.

COMPUTER SYSTEMS TECHNOLOGY (ACST) CONCENTRATION

The Computer Systems Technology concentration is designed to teach students the fundamentals of computer systems and their application. Emphasis is placed on computer technology, as well as programming and applications, in an era of rapidly changing computer technology. Entrance requirement for concentration: Students must have prior experience and/or coursework in Information Technology, Computer Science, or a closely related field.

Students must take CGS 1540 Introduction to Databases for Information Technology and COP 2512 Programming Fundamentals for Information Technology in their first semester in the concentration, if the courses were not taken prior to transferring to USF. Students must receive a minimum grade of C- in both courses to progress in the Computer Systems Technology concentration. If a student does not receive, enroll, and/or meet the minimum grade requirements for CGS 1540 and COP 2512, he/she will be required to choose another BSAS concentration.

Special Note: It is highly recommended that CGS 1540 Introduction to Databases for Information Technology and COP 2512 Programming Fundamentals for Information Technology (or any equivalent courses) are taken prior to admission to this concentration.
REQUIREMENTS FOR THE CONCENTRATION IN COMPUTER SYSTEMS TECHNOLOGY

TOTAL CONCENTRATION HOURS: 24

CONCENTRATION CORE (18 HOURS)

- CGS 1540 Introduction to Databases for Information Technology
- CGS 3303 Information Technology Concepts
- COP 2512 Programming Fundamentals for Information Technology
- COP 2513 Object Oriented Programming for Information Technology
- COP 3515 Advanced Program Design for Information Technology
- MAD 2104 Discrete Math

Concentration Electives (3 hours)

Students choose three (3) credit hours from the following list of courses:

- CEN 3722 Human Computer Interfaces for Information Technology
- CEN 4360 Mobile Applications Development for IT
- CGS 3845 Electronic Commerce
- CIS 3213 Foundations of Cyber Security
- CIS 3433 System Integration and Architecture for IT
- CIS 4204 Ethical Hacking
- CIS 4361 Information Assurance and Security Management for IT
- CIS 4412 Resource Management for IT
- CNT 4104/CNT 4104L Computer Information Networks for Information Technology with Lab
- COP 3353 User-Level Introduction to Linux for IT
- COP 4564 Application Maintenance &Debugging for IT
- CTS 4337 Linux Workstations System Administration for IT

The above electives may not be offered every semester. Additional electives may be possible. Please consult with the Department of Computer Science and Engineering undergraduate academic advisor.

Entrance Requirement for the Computer Systems Technology concentration: Students must have completed the A.S. degree with a major in Information Technology, Computer Science, Networking, or a closely related field.
DEAF STUDIES (ADS) CONCENTRATION

This concentration will introduce students to the history, culture and language of the American Deaf community. The student will be exposed to the full spectrum of Deafness from the cultural view to the pathological view. In addition, students will be able to explore a variety of social and community services and tailor their education to their specific area of interest. Students will be able to apply their knowledge of Deafness and cultural perspective to these social and community services in order to become an advocate within the community.

REQUIREMENTS FOR THE CONCENTRATION IN DEAF STUDIES

TOTAL CONCENTRATION HOURS: 24

CONCENTRATION CORE (12 HOURS)

- ASL 3514 Deaf Culture
- INT 3004 Fundamentals of Interpreting
- SPA 3470 Culture and Diversity in CSD
- SPA 4321 Introduction to Audiologic Rehabilitation

Concentration Electives (9 hours)

Choose nine credit hours from the following list of courses:
- ASL 2140C Basic American Sign Language
- ASL 2150C Intermediate American Sign Language
- ASL 3324 Advanced ASL Discourse
- ASL 4161C Advanced American Sign Language
- MHS 3411 Multidisciplinary Behavioral Healthcare Services
- SPA 3002 Introduction to Disorders of Speech and Language
- SPA 3004 Introduction to Language Development and Disorders
- SPA 3030 Introduction to Hearing Science
- SPA 3112 Applied Phonetics in Communication Disorders
- SPA 3261 Language Science for Comm. Sciences
- SPA 3310 Introduction to Disorders of Hearing

ENVIRONMENTAL POLICY (AEP) CONCENTRATION

http://ugs.usf.edu/catalog/?category=majors&amp

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

REQUIREMENTS FOR THE CONCENTRATION IN ENVIRONMENTAL POLICY

TOTAL CONCENTRATION HOURS: 25

CONCENTRATION CORE (7 HOURS)

- EVR 2001 Introduction to Environmental Science
- EVR 2001L Environmental Science Lab
- EVR 2861 Introduction to Environmental Policy

Concentration Electives (15 hours)

Choose 9 credit hours from the following:
- EVR 4027 Wetland Environments
- EVR 4033 Environmental Regulation
- EVR 4104 Karst Environments
- EVR 4114 Climate Change
- GEO 4502 Economic Geography
Choose 6 credits from the following:

- EVR 4807 Sustainable Healthy Environments
- EVR 4930 Selected Topics
- GEO 4340 Natural Hazards
- GEO 4372 Global Conservation
- GEO 4421 Cultural Geography
- GEO 4471 Political Geography
- GEO 4604 Topics in Urban Geography
- GEO 4700 Transportation Geography
- GIS 4043C Geographical Information Systems
- PAD 3003 Introduction to Public Administration
- PAD 4144 Non-Profit Organizations and Public Policy
- PAD 4930 Selected Topics in Public Administration and Public Policy
- POS 3142 Introduction to Urban Politics and Government
- POS 3182 Florida Politics and Government
- URP 4052 Urban and Regional Planning

INFORMATION STUDIES: INFORMATION ARCHITECTURE (AIA) CONCENTRATION

http://ugs.usf.edu/catalog/?category=majors&amp

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

REQUIREMENTS FOR THE CONCENTRATION IN INFORMATION STUDIES: INFORMATION ARCHITECTURE

TOTAL CONCENTRATION HOURS: 24

CONCENTRATION CORE (18 HOURS)

- LIS 3261 Introduction to Information Science
- LIS 3353 IT Concepts for Information Professionals
- LIS 3783 Information Architecture
- LIS 3361 World Wide Web Page Design and Management
- LIS 3352 Interaction Design
- LIS 4365 Web Design Technologies
Concentration Electives (3 hours)

Choose three credit hours from the following list of courses:

- CEN 3722 Human Computer Interfaces for Information Technology
- CGS 3847 Portal Development and E-Commerce
- CIS 3360 Principles of Information Security
- CIS 3367 Architecting Operating System Security
- CIS 3932 Special Topics for Information Technology
- CIS 4204 Ethical Hacking
- CIS 4253 Ethics for Information Technology
- CIS 4361 Information Technology Security Management for IT
- CIS 4365 Computer Security Policies and Disaster Preparedness
- CIS 4368 Database Security and Audits
- CIS 4412 Resource Management for IT
- CIS 4510 IT Project Management
- CIS 4932 Special Topics for Information Technology
- CIS 4935 Senior Project in Information Technology
- COP 1930 Special Topics for Information Technology
- COP 2930 Special Topics for Information Technology
- COP 2931 Special Topics for Information Technology
- COP 3931 Special Topics for Information Technology
- COP 4814 Web Services
- COP 4816 XML Applications
- COP 4834 Data-Driven Web Sites
- COP 4931 Special Topics for Information Technology
- ETG 3931 Special Topics in Information Technology
- ETG 3933 Selected Topics in Technology
- ETG 3934 Selected Topics in Technology II
- ETG 4930 Special Topics in Information Technology
- LIS XXXX Approved Information Science elective
The Leadership Studies concentration is interdisciplinary in nature and is a significant benefit to students in all areas of study. Courses are designed to give students a practical and theoretical grasp of leadership on the basic assumption that leadership can be learned and, therefore, taught. The concentration has a unique approach to leadership that combines practical theories and opportunities for students to study the characteristics of authority, leadership, social and role dynamics, political processes and the values that orient their careers.

**REQUIREMENTS FOR THE CONCENTRATION IN LEADERSHIP STUDIES**

**TOTAL CONCENTRATION HOURS: 24**

**CONCENTRATION CORE (3 HOURS)**

Concentration Requirement:
- LDR 4104 Theories of Leadership

**Concentration Electives (18 hours)**

Choose 3 credit hours from the following:
- LDR 2010 Leadership Fundamentals
- LDR 3331 Leading in the Workplace

Choose 9 credit hours from the following:
- LDR 3214 Leadership in the Fraternal Movement
- LDR 3280 Leadership in the Political Context
- LDR 3930 Special Topics in Leadership (repeatable with different topics)
- LDR 4114 Survey of Leadership Readings
- LDR 4164 Organizational Theories and Processes
- LDR 4564 Images of Leadership in the Media

Choose 6 credit hours from the following:
- LDR 3115 Contemporary Issues in Leadership
- LDR 3216 Leadership and Social Change
- LDR 3263 Community Leadership Practicum
- LDR 4204 Ethics and Power in Leadership
- LDR 4230 Global Leadership
PUBLIC HEALTH (APL) CONCENTRATION

http://ugs.usf.edu/catalog/?category=majors&

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

REQUIREMENTS FOR THE CONCENTRATION IN PUBLIC HEALTH

TOTAL CONCENTRATION HOURS: 24

CONCENTRATION CORE (9 HOURS)

- HSC 4551 Survey of Human Diseases
- PHC 4030 Introduction to Epidemiology
- PHC 4101 Overview of Public Health Programs and Policies

Concentration Electives (12 hours)
Choose 12 credit hours from the following list of courses:

- HSC 4172 Women's Health: A Public Health Perspective
- HSC 4211 Health, Behavior and Society
- HSC 4430 Occupational Health and Safety
- HSC 4504 Foundations of Public Health Immunology
- HSC 4573 Foundations of Food Safety
- HSC 4579 Foundations of Maternal and Child Health
- HSC 4624 Foundations of Global Health
- HSC 4630 Understanding U.S. Health Care
- HSC 4631 Critical Issues in Public Health
- HSC 4933 Special Topics in Public Health
- HUN 3126 Food and Culture
- HUN 3272 Sports Nutrition
- HUN 3296 Nutrition and Disease
- PHC 4031 Emerging Infectious Diseases
- PHC 4032 Foundations of Infection Control
- PHC 4069 Biostatistics in Society
- PHC 4720 Foundation to Professional Writing in Public Health
PUBLIC ADMINISTRATION (APU) CONCENTRATION

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

REQUIREMENTS FOR THE CONCENTRATION IN PUBLIC ADMINISTRATION

TOTAL CONCENTRATION HOURS: 24

CONCENTRATION CORE (15 HOURS)

- PAD 3003 Introduction to Public Administration
- PAD 4144 Nonprofit Organizations and Public Policy
- PAD 4204 Public Financial Administration
- PAD 4415 Personnel and Supervision in Today's Diverse Organizations
- PAD 4712 Managing Information Resources in the Public Sector

Concentration Electives (6 hours)

Choose six credit hours from the following list of courses:

- PAD 4930 Selected Topics in Public Administration and Public Policy
- POS 3182 Florida Politics and Government
- PUP 4002 Public Policy
- URP 4050 City Planning and Community Development
- URS 3002 Introduction to Urban Studies

URBAN STUDIES (AUR) CONCENTRATION

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

REQUIREMENTS FOR THE CONCENTRATION IN URBAN STUDIES

TOTAL CONCENTRATION HOURS: 24

CONCENTRATION CORE (6 HOURS)

- PAD 3003 Introduction to Public Administration
- URS 3002 Introduction to Urban Studies

Concentration Electives (15 hours)

Choose 6 credit hours from the following:

- URP 4050 City Planning and Community Development
- URP 4052 Urban and Regional Planning
- URP XXXX An approved URP course or URS XXXX An approved URS course
Choose 9 credit hours from the following:

- AMH 3500 American Labor History
- AMS 3700 Racism in American Society
- ARC 4784 The City
- CCJ 3014 Crime and Justice in America
- EVR 2861 Introduction to Environmental Policy
- GIS 3006 Mapping Geovisualization
- IDS 4942 Community Internship
- PAD 4144 Nonprofit Organizations and Public Policy
- PAD 4204 Public Financial Administration
- PAD 4930 Selected Topics in Public Administration and Public Policy
- PAD 5035 Issues in Public Administration and Public Policy
- PAD 5807 Urban and Local Government Administration or POS 3142 Introduction to Urban Politics and Government
- POS 3182 Florida Politics and Government
- SOW 3210 American Social Welfare System
- SPC 3710 Communication and Cultural Diversity
- SYD 4410 Urban Sociology
- TTE 4003 Transportation and Society

B.A. - EXPLORATORY CURRICULUM: ARTS & HUMANITIES (EAH)
(CIP = 24.0102)
TOTAL DEGREE HOURS: 36

This track is designed for students interested in learning more about Communication-based careers such as Advertising, PR, Journalism, and Social Media. Students interested in learning how to use an English major to achieve high paying jobs will benefit from this track, as well as, those interested in a global career such as World Languages and Cultures, Art History, or Studio Art. Students wanting to learn more about the accelerated master’s program in architecture can use this track as a foundation for the accelerated master. Finally, this track is recommended for those awaiting entry into an Art major based on an audition in Music or Dance.

STATE MANDATED COMMON COURSE PREREQUISITES

There are no specified common prerequisites for this major. All Florida College System students are encouraged to complete the Associate of Arts degree. Students should consult with an academic advisor in their major degree area at the intended transfer institution.

REQUIREMENTS FOR THE MAJOR IN EXPLORATORY CURRICULUM: ARTS & HUMANITIES

REQUIRED SUPPORTING COURSES FOR THE MAJOR: 0 HOURS

The following courses are prerequisite and supporting courses for this major. They are required for the major, but are not counted in the total hours for this major. The degree will not be awarded if these courses have not been taken by the end of the student’s final semester.

SLS 2901 Academic Foundations U-Decide
MAJOR REQUIREMENTS FOR THE B.A. DEGREE:

MAJOR CORE

Disclaimer: The Exploratory program is not a major from which you can graduate. During the program, a student will focus on satisfying the Enhanced General Education (Gen Ed.) requirements, which are needed for any major at USF. These courses are a great way to learn about career fields and academic disciplines that you may not be familiar with yet while staying on path for a timely graduation.

In addition, Exploratory Curriculum (ECM) students are required to complete SLS 2901, a first-year experience course with a significant major/career exploration component.

The following courses are suggested for this ECM track.

- SLS 2901 Academic Foundations U-Decide
- ENC 1101 Composition 1
- SYG 2000 Sociology
- MAC 1105 for Architecture
- LIT 2000 Literature
- ART 2201C Art Concepts and Practices or DAN 2100 Dance Experience
- REL 2300 World Religions
- ARH 2050 History of Visual Arts 1
- MMC 3602 Mass Communications and Society

MAJOR ELECTIVES

- MGF 1106 Finite Math
- MGF 1107 Math for Liberal Arts
- AST 2002 Astronomy

RESEARCH OPPORTUNITIES

All undergraduate students in any degree program can participate in undergraduate research. There are a number of options to receive academic credit for a mentored research experience and to have the experience show on the official transcript. Students who wish to enroll in an undergraduate research course should consult with their academic advisor to understand how the credit will apply towards the degree requirements. If no credit is needed, students may be eligible to enroll in the 0-credit IDS 2912, IDS 4914 or IDH 4910 courses. These courses will not impact degree credits or GPA but will show on an official transcript and document the experience. The Office of Undergraduate Research will assist students in understanding the various course options.

ACCREDITATION INFORMATION

The University of South Florida (USF) is accredited by the Southern Association of Colleges and Schools' Commission on Colleges.

ADVISING INFORMATION

Shane Combs at 813-974-2645 or ECMadvise@usf.edu

http://usf.edu/ECM
B.S. - EXPLORATORY CURRICULUM: BUSINESS (ECB)

(CIP = 24.0102)
TOTAL DEGREE HOURS: 36

This track is designed for students who need help deciding their exact role in a large business world. Do you want to work for Amazon or start your own company? Do you want to work with technology or with people? Do you want to produce creative ads on TV or make sustainable products for the environment? Do you want to work across the country or across the world? The USF Muma College of Business includes 9 majors and 9 sub-concentrations.

STATE MANDATED COMMON COURSE PREREQUISITES

There are no specified common prerequisites for this major. All Florida College System students are encouraged to complete the Associate of Arts degree. Students should consult with an academic advisor in their major degree area at the intended transfer institution.

REQUIREMENTS FOR THE MAJOR IN EXPLORATORY CURRICULUM: BUSINESS

REQUIRED SUPPORTING COURSES FOR THE MAJOR: 0 HOURS

The following courses are prerequisite and supporting courses for this major. They are required for the major, but are not counted in the total hours for this major. The degree will not be awarded if these courses have not been taken by the end of the student’s final semester.

SLS 2901 Academic Foundations U-Decide

MAJOR REQUIREMENTS FOR THE B.S. DEGREE:

MAJOR CORE

Disclaimer: The Exploratory program is not a major from which you can graduate. During the program, a student will focus on satisfying the Enhanced General Education (Gen Ed.) requirements, which are needed for any major at USF. These courses are a great way to learn about career fields and academic disciplines that you may not be familiar with yet while staying on path for a timely graduation. In addition, Exploratory Curriculum (ECM) students are required to complete SLS 2901, a first-year experience course with a significant major/career exploration component. The following courses are suggested for this ECM track.

- SLS 2901 Academic Foundations U-Decide
- MAC 1105 College Algebra
- SPC 2608 Public Speaking
- ECO 2013 Microeconomics
- MAC 2233 Business Calculus
- CGS 2100 Computers in Business
- ECO 2023 Microeconomics.

MAJOR ELECTIVES

- ENC 1101 Composition 1
- ENC 1102 Composition 2
- BSC 1005 Biology for non-majors
- PHI 2010 Philosophy
- REL 2300 World Religions
RESEARCH OPPORTUNITIES

All undergraduate students in any degree program can participate in undergraduate research. There are a number of options to receive academic credit for a mentored research experience and to have the experience show on the official transcript. Students who wish to enroll in an undergraduate research course should consult with their academic advisor to understand how the credit will apply towards the degree requirements. If no credit is needed, students may be eligible to enroll in the 0-credit IDS 2912, IDS 4914 or IDH 4910 courses. These courses will not impact degree credits or GPA but will show on an official transcript and document the experience. The Office of Undergraduate Research will assist students in understanding the various course options.

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http://usf.edu/ECM

B.S. - EXPLORATORY CURRICULUM: GLOBAL & SOCIAL SCIENCES (EGS)

(CIP = 24.0102)

TOTAL DEGREE HOURS: 36

This track is designed for students who are interested in theories and human interactions. This track is also designed for students who want a career based on helping others or who want to tackle modern social justice issues. This track includes a variety of majors such as Psychology, Political Science, Criminology, International Studies, Social Work, and Women's Studies.

STATE MANDATED COMMON COURSE PREREQUISITES

There are no specified common prerequisites for this major. All Florida College System students are encouraged to complete the Associate of Arts degree. Students should consult with an academic advisor in their major degree area at the intended transfer institution.

REQUIREMENTS FOR THE MAJOR IN EXPLORATORY CURRICULUM: GLOBAL & SOCIAL SCIENCES

REQUIRED SUPPORTING COURSES FOR THE MAJOR: 0 HOURS

The following courses are prerequisite and supporting courses for this major. They are required for the major, but are not counted in the total hours for this major. The degree will not be awarded if these courses have not been taken by the end of the student’s final semester.

SLS 2901 Academic Foundations U-Decide
MAJOR REQUIREMENTS FOR THE B.S. DEGREE:

MAJOR CORE

Disclaimer: The Exploratory program is not a major from which you can graduate. During the program, a student will focus on satisfying the Enhanced General Education (Gen Ed.) requirements, which are needed for any major at USF. These courses are a great way to learn about career fields and academic disciplines that you may not be familiar with yet while staying on path for a timely graduation. In addition, Exploratory Curriculum (ECM) students are required to complete SLS 2901, a first-year experience course with a significant major/career exploration component. The following courses are suggested for this ECM track.

- SLS 2901 Academic Foundations U-Decide
- PSY 2012 Psychology
- PHI 1600 Ethics
- STA 2023 Statistics
- GEY 2000 Aging Sciences
- EDF 3514 History of Education in the U.S.
- WST 3015 Intro to Women's Studies
- ENC 1101 Composition 1
- CCJ 3014 Crime and Justice in America

MAJOR ELECTIVES

- BSC 1005 Biology for non-majors
- PHI 2010 Philosophy
- MGF 1107 Math for Liberal Arts

RESEARCH OPPORTUNITIES

All undergraduate students in any degree program can participate in undergraduate research. There are a number of options to receive academic credit for a mentored research experience and to have the experience show on the official transcript. Students who wish to enroll in an undergraduate research course should consult with their academic advisor to understand how the credit will apply towards the degree requirements. If no credit is needed, students may be eligible to enroll in the 0-credit IDS 2912, IDS 4914 or IDH 4910 courses. These courses will not impact degree credits or GPA but will show on an official transcript and document the experience. The Office of Undergraduate Research will assist students in understanding the various course options.

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http://usf.edu/ECM
This track is designed for students exploring various medical careers. Maybe you know the type of medicine you want to practice, but not which specific health major to choose. Maybe you know you are great at Biology or Chemistry in high school, but not sure what branch of medicine is associated with these academic disciplines. The other type of student this track is designed for is those exploring various research careers such as Environmental Science, Geology, Communication Science and Disorders, or Public Health.

STATE MANDATED COMMON COURSE PREREQUISITES

There are no specified common prerequisites for this major. All Florida College System students are encouraged to complete the Associate of Arts degree. Students should consult with an academic advisor in their major degree area at the intended transfer institution.

REQUIREMENTS FOR THE MAJOR IN EXPLORATORY CURRICULUM: HEALTH & NATURAL SCIENCES

REQUIRED SUPPORTING COURSES FOR THE MAJOR: 0 HOURS

The following courses are prerequisite and supporting courses for this major. They are required for the major, but are not counted in the total hours for this major. The degree will not be awarded if these courses have not been taken by the end of the student's final semester.

SLS 2901 Academic Foundations U-Decide

MAJOR REQUIREMENTS FOR THE B.S. DEGREE:

MAJOR CORE

Disclaimer: The Exploratory program is not a major from which you can graduate. During the program, a student will focus on satisfying the Enhanced General Education (Gen Ed.) requirements, which are needed for any major at USF. These courses are a great way to learn about career fields and academic disciplines that you may not be familiar with yet, while staying on path for a timely graduation. In addition, Exploratory Curriculum (ECM) students are required to complete SLS 2901, a first-year experience course with a significant major/career exploration component. The following courses are suggested for this ECM track.

- SLS 2901 Academic Foundations U-Decide
- MAC 1105 College Algebra
- BSC 2010 Cellular Process and BSC 2010L or CHM 2045 Chemistry and CHM 2045L
- STA 2023 Statistics
- BSC 2085 Anatomy and BSC 2085L
- PHI 1600 Ethics
- HSC 2100 Health Science or GEY 2000 Aging Sciences

MAJOR ELECTIVES

- EVR 2001 Environmental Science
- HUM 1020 Humanities
- REL 2300 World Religions
RESEARCH OPPORTUNITIES

All undergraduate students in any degree program can participate in undergraduate research. There are a number of options to receive academic credit for a mentored research experience and to have the experience show on the official transcript. Students who wish to enroll in an undergraduate research course should consult with their academic advisor to understand how the credit will apply towards the degree requirements. If no credit is needed, students may be eligible to enroll in the 0-credit IDS 2912, IDS 4914 or IDH 4910 courses. These courses will not impact degree credits or GPA but will show on an official transcript and document the experience. The Office of Undergraduate Research will assist students in understanding the various course options.

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http://usf.edu/ECM

B.S. - EXPLORATORY CURRICULUM: MATH, ENGINEERING & TECHNOLOGY (EMT)
(CIP = 24.0102)
TOTAL DEGREE HOURS: 36

This track is designed for students who are exploring the 11 different Engineering majors at USF. For students who know they want to work with technology, but are not sure if that means app development, business intelligence, cybersecurity, website design, or search engine optimization, this track provides the foundation. This track is perfect for those who do not meet the College of Engineering entry requirements. A student in the EMT track can complete the entry requirements and stay on track for graduation by satisfying the general education requirements.

STATE MANDATED COMMON COURSE PREREQUISITES

There are no specified common prerequisites for this major. All Florida College System students are encouraged to complete the Associate of Arts degree. Students should consult with an academic advisor in their major degree area at the intended transfer institution.

REQUIREMENTS FOR THE MAJOR IN EXPLORATORY CURRICULUM: MATH, ENGINEERING & TECHNOLOGY

REQUIRED SUPPORTING COURSES FOR THE MAJOR: 0 HOURS

The following courses are prerequisite and supporting courses for this major. They are required for the major, but are not counted in the total hours for this major. The degree will not be awarded if these courses have not been taken by the end of the student’s final semester.

SLS 2901 Academic Foundations U- Decide
MAJOR REQUIREMENTS FOR THE B.S. DEGREE:

MAJOR CORE

Disclaimer: The Exploratory program is not a major from which you can graduate. During the program, a student will focus on satisfying the Enhanced General Education (Gen Ed.) requirements, which are needed for any major at USF. These courses are a great way to learn about career fields and academic disciplines that you may not be familiar with yet, while staying on path for a timely graduation. In addition, Exploratory Curriculum (ECM) students are required to complete SLS 2901, a first-year experience course with a significant major/career exploration component. The following courses are suggested for this ECM track.

- SLS 2901 Academic Foundations U-Decide
- MAC 1147 Pre-Calculus or MAC 2311 Calculus 1
- CHM 2045 Chemistry and CHM 2045L
- MAC 2312 Calculus 2
- PHY 2048 Calculus based Physics and PHY 2048L
- LIS 2005 Information Literacy

MAJOR ELECTIVES

- POS 2041 American National Government
- ENC 1101 Composition 1
- ENC 1102 Composition 2
- PHI 1600 Ethics
- GEO 2400 Human Geography

RESEARCH OPPORTUNITIES

All undergraduate students in any degree program can participate in undergraduate research. There are a number of options to receive academic credit for a mentored research experience and to have the experience show on the official transcript. Students who wish to enroll in an undergraduate research course should consult with their academic advisor to understand how the credit will apply towards the degree requirements. If no credit is needed, students may be eligible to enroll in the 0-credit IDS 2912, IDS 4914 or IDH 4910 courses. These courses will not impact degree credits or GPA but will show on an official transcript and document the experience. The Office of Undergraduate Research will assist students in understanding the various course options.

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ADVISING INFORMATION

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http://usf.edu/ECM
# B.G.S. - GENERAL STUDIES (BGS)

(CIP = 24.0102)

**TOTAL DEGREE HOURS: 120**

http://www.usf.edu/undergrad/programs/bgs/

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

B.G.S. students will take an active role in creating their academic plans. Rather than choosing a traditional major, B.G.S. students can choose from a number of established plans of study or can create their own individualized plan of study. BGS students complete 24-27 credits (core courses and electives) within a selected concentration in addition to their other degree requirements. Due to the nature of degree completion programs, please note the following admissions requirements: a gap in education of 3 or more years, at least 60 credits earned at a regionally accredited college or university, good academic standing and extensive work experience. In addition to these requirements, all applicants must meet USF’s general admissions standards for transfer students. **Students pursuing a Bachelor of General Studies degree are restricted from declaring a minor, due to USF’s degree progression policy.**

Students may not pursue the Bachelor of General Studies as a second major, co-degree (concurrent degree), dual degree, or second or post-baccalaureate degree. Baccalaureate degree holders who wish to pursue further education are encouraged to pursue admission into a graduate degree program of study.

## STATE MANDATED COMMON COURSE PREREQUISITES

Students desiring to transfer to USF should complete an A.A. degree at a Florida College System institution. If students transfer with fewer than 60 semester hours of acceptable credit, the students must meet the University's entering freshman requirements including ACT or SAT test scores, GPA, and course requirements. Transfer students are also required to comply with the immunization, foreign language, and continuous enrollment policies of the university.

There are no State Mandated Common Prerequisites for this program. All Florida College System students are encouraged to complete the Associate degree. Students should consult with an academic advisor in their major degree area at the intended transfer institution.

## REQUIREMENTS FOR THE MAJOR IN GENERAL STUDIES

**TOTAL MAJOR HOURS: 24-27**

### MAJOR REQUIREMENTS FOR THE B.G.S. DEGREE:

### MAJOR CORE (3 HOURS)

USF Capstone EXIT Requirement:

- IDS 4934 Senior Capstone for B.S.A.S./B.G.S.

Upon acceptance to the B.G.S. major, students will complete the necessary coursework to reach 120 credit hours. The 120 credit hour requirement includes completing the following:

- USF Enhanced General Education requirements (based on your assigned catalog year) or approved equivalents - unless General Education credits were completed at another Florida institution.
- All USF exit requirements.
- Foreign Language Requirement.
- One or two disciplinary concentrations selected by the student and approved by the advisor.
- A minimum of 42 semester hours of upper-level work (courses numbered 3000 and above).
GRADING REQUIREMENT
A minimum grade of C- or better must be attained in each concentration course.

RESIDENCY REQUIREMENT
At least 30 of the last 60 credit hours must be earned at USF Tampa.

FOREIGN LANGUAGE REQUIREMENT
Foreign language requirement can be satisfied by two years of high school foreign language credit or 8 college credit hours in a single foreign language. Note: ASL 2140C Basic American Sign Language and ASL 2150C Intermediate American Sign Language may be substituted to meet this requirement.

RESEARCH OPPORTUNITIES
All undergraduate students in any degree program can participate in undergraduate research. There are a number of options to receive academic credit for a mentored research experience and to have the experience show on the official transcript. Students who wish to enroll in an undergraduate research course should consult with their academic advisor to understand how the credit will apply towards the degree requirements. If no credit is needed, students may be eligible to enroll in the 0-credit IDS 2912, IDS 4914 or IDH 4910 courses. These courses will not impact degree credits or GPA but will show on an official transcript and document the experience. The Office of Undergraduate Research will assist students in understanding the various course options.

OTHER INFORMATION
The following B.G.S. Areas of Concentration are offered fully or partially online:

- Criminal Justice (fully online)
- Educational Foundations (partially online)
- Environmental Policy (partially online)
- Information Studies: Information Architecture (fully online)
- Public Administration (fully online)
- Public Health (fully online)
- Urban Studies (partially online)

Consult advisor for availability of online course offerings.

ADVISING INFORMATION
Office of Undergraduate Studies (UGS)
Location/Phone: Student Services Building (SVC) 2002; (813) 974-4051
Website: http://www.usf.edu/undergrad/programs/bgs/

ARCHITECTURE (GAR) CONCENTRATION
http://ugs.usf.edu/catalog/?%20category=majors&
This concentration is not accepting new admits, as it is reserved for redirected graduate students from the USF Tampa Master of Architecture degree program on a case-by-case basis. Students are subject to BGS admission requirements, therefore admission to the program is not a guarantee.
REQUIREMENTS FOR THE CONCENTRATION IN ARCHITECTURE

CONCENTRATION CORE

- ARC 2211 Introduction to Architecture
- ARC 2131C Introduction to Architectural Design and Graphics
- ARC 2135C Introduction to Architectural Design and Graphics II
- ARC 2931 Selected Topics: Introduction to Digital Architecture
- ARC 2112L Architectural Freehand Drawing Methods OR Other Creative Arts course, as approved by the Architecture advisor
- MAC 2233 Business Calculus or MAC 2311 Calculus I OR MAC 2281 Engineering Calculus I
- ARC 4931 Selected Topics in Architecture and Community Design: Physics for Architects OR PHY 2020 Conceptual Physics
- ARC 4784 The City

COURSE GRADE REQUIREMENT

All courses must be completed with a grade of C- or higher)

AGING SCIENCES (GASC) CONCENTRATION

http://ugs.usf.edu/catalog/?category=majors&display=detail&maj=BGS&deg=BGS&conc=GASC

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

REQUIREMENTS FOR THE CONCENTRATION IN AGING SCIENCES

TOTAL CONCENTRATION HOURS: 24

CONCENTRATION CORE (12 HOURS)

- GEY 2000 Introduction to Aging Sciences
- GEY 3601 Physical Changes and Aging
- GEY 3625 Sociological Aspects of Aging
- GEY 4612 Psychology of Aging

Concentration Electives (9 hours)

Choose nine credit hours from the following list of courses:

- GEY 3503 Administrative of Assisted Living Facilities
- GEY 4101 Aging in Special Populations
- GEY 4102 Aging in Modern Literature and Film
- GEY 4231 Elder Abuse and Neglect
- GEY 4322 Care Management for Older Adults
- GEY 4360 Counseling for Older Adults
- GEY 4608 Alzheimer's Disease Management
- GEY 4628 Health, Ethnicity, and Aging
BEHAVIORAL HEALTHCARE (GBH) CONCENTRATION

http://ugs.usf.edu/catalog/?category=majors&display=detail&maj=BGS&deg=BGS&conc=GBH

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

REQUIREMENTS FOR THE CONCENTRATION IN BEHAVIORAL HEALTHCARE

TOTAL CONCENTRATION HOURS: 24

CONCENTRATION CORE (18 HOURS)

- *MHS 3411 Multidisciplinary Behavioral Healthcare Services
- MHS 4002 Behavioral Health Systems Delivery
- **MHS 4022 Adult Psychopathology in the Community or **MHS 4490 Behavioral Healthcare Issues for Children
- MHS 4408 Exemplary Practices in Behavioral Healthcare Treatment
- MHS 4703 Legal, Ethical and Professional Issues in BHC
- MHS 4723 Professional Seminar in Behavioral Healthcare

*MHS 3411 should be taken during student's first semester of concentration coursework; a minimum grade of "B-" is required.

**Note: MHS 4022 is for students with an interest in working with adults; MHS 4490 is for students interested in working with children.

Concentration Electives (3 hours)

Choose three (3) credit hours from the following list of courses:

- MHS 3204 Fundamentals of Applied Behavior Analysis or CLP 4414 Behavior Modification
- MHS 4023 Recovery-Oriented Mental Health Services
- MHS 4074 Child Development and Trauma
- MHS 4203 Practical Skills-Children's Behavioral Healthcare
- MHS 4425 Field Experience in Behavioral Healthcare
- MHS 4434 Behavioral Health and the Family
- MHS 4452 Co-Occurring Disorders
- MHS 4463 Suicide Issues in Behavioral Health
- MHS 4731 Writing for Research and Publication in Behavioral and Community Sciences
- MHS 4741 Applied Research Methods
- MHS 4931 Selected Topics
COURSE GRADE REQUIREMENT

- MHS 3411 should be taken during student's first semester of concentration coursework; a minimum grade of "B-" is required.
- MHS 4022 is for students with an interest in working with adults
- MHS 4490 is for students interested in working with children

BUSINESS (GBU) CONCENTRATION

http://ugs.usf.edu/catalog/?category=majors&

The Business concentration will give students exposure to the basic elements of all business disciplines. The goal of the Business concentration is to provide students the opportunity to pursue a broad-based study of upper-level coursework in business with electives from outside the college to meet career preparation goals.

REQUIREMENTS FOR THE CONCENTRATION IN BUSINESS

TOTAL CONCENTRATION HOURS: 27

CONCENTRATION CORE (24 HOURS)

- ACG 2021 Principles of Financial Accounting
- ACG 2071 Principles of Managerial Accounting
- ECO 2013 Economic Principles (Macroeconomics)
- ECO 2023 Economic Principles (Microeconomics)
- FIN 3403 Principles of Finance
- GEB 4890 Strategic Management and Decision Making
- MAN 3025 Principles of Management
- MAR 3023 Basic Marketing

CRIMINAL JUSTICE (GCJ) CONCENTRATION

http://ugs.usf.edu/catalog/?category=majors&

The Criminal Justice concentration provides students with an exposure to the criminal justice system including law enforcement, detention, the judiciary, corrections, and probation and parole. The objective of the concentration in Criminal Justice is to develop a sound educational basis either for graduate work or for professional training in one or more of the specialized areas comprising the modern urban criminal justice system.

REQUIREMENTS FOR THE CONCENTRATION IN CRIMINAL JUSTICE

TOTAL CONCENTRATION HOURS: 24

CONCENTRATION CORE (6 HOURS)

- CCJ 3024 Survey of the Criminal Justice System
- CCJ 3117 Theories of Criminal Behavior

Concentration Electives (15 hours)

Choose fifteen (15) credit hours of upper-level Criminal Justice courses with the following prefixes: CCJ, CJE, CJC, or CJL.
The Computer Systems Technology concentration is designed to teach students the fundamentals of computer systems and their application. Emphasis is placed on computer technology, as well as programming and applications, in an era of rapidly changing computer technology. Entrance requirement for concentration: Students must have prior experience and/or coursework in Information Technology, Computer Science, or a closely related field.

Students must take CGS 1540 Introduction to Databases for Information Technology and COP 2512 Programming Fundamentals for Information Technology in their first semester in the concentration, if the courses were not taken prior to transferring to USF. Students must receive a minimum grade of C- in both courses to progress in the Computer Systems Technology concentration. If a student does not receive, enroll, and/or meet the minimum grade requirements for CGS 1540 and COP 2512, he/she will be required to choose another BGS concentration.

**REQUIREMENTS FOR THE CONCENTRATION IN COMPUTER SYSTEMS TECHNOLOGY**

**TOTAL CONCENTRATION HOURS: 24**

**CONCENTRATION CORE (18 HOURS)**

- CGS 1540 Introduction to Databases for Information Technology
- CGS 3303 IT Concepts
- COP 2512 Programming Fundamentals for Information Technology
- COP 2513 Object Oriented Programming for Information Technology
- COP 3515 Advanced Program Design for Information Technology
- MAD 2104 Discrete Math

**Concentration Electives (3 hours)**

Students choose three (3) credit hours from the following list of courses:

- CEN 3722 Human Computer Interfaces for Information Technology
- CEN 4360 Mobile Applications Development for IT
- CGS 3845 Electronic Commerce
- CIS 3213 Foundations of CyberSecurity
- CIS 3433 System Integration and Architecture for IT
- CIS 4204 Ethical Hacking
- CIS 4361 Information Assurance and Security Management for IT
- CIS 4412 Resource Management for IT
- CNT 4104/CNT 4104L Computer Information Networks for Information Technology with Lab
- COP 3353 User-Level Introduction to Linux for IT
- COP 4564 Application Maintenance and Debugging for IT
- CTS 4337 Linux Workstations System Administration for IT

The above electives may not be offered every semester. Additional electives may be possible. Please consult with the Department of Computer Science and Engineering undergraduate academic advisor.

**Entrance Requirement for the Computer Systems Technology concentration:** Students must have prior experience and/or coursework in Information Technology, Computer Science, Networking, or a closely related field.
EDUCATIONAL FOUNDATIONS (GEF) CONCENTRATION

(CIP = 24.0102)

http://ugs.usf.edu/catalog/?category=majors&amp;

Students who enroll in Educational Foundations will explore the impact society has had on learning and education. Coursework provides opportunities for students to study the learning process including assessment, perspectives of diverse learners, the organization of schooling, and its links to broader political and historical contexts, the potential of educational systems to bring about social change. The Educational Foundations concentration can be a valuable program addition for students pursuing careers in social and behavioral sciences, law, and youth services among many other career fields. The concentration is appropriate for non-teacher education majors who want to enhance their understanding of educational institutions and the learning process and for those who intend to apply to graduate school in an education program.

REQUIREMENTS FOR THE CONCENTRATION IN EDUCATIONAL FOUNDATIONS

TOTAL CONCENTRATION HOURS: 24

CONCENTRATION CORE (15 HOURS)

- EEX 4742 Narrative Perspectives on Exceptionality: Cultural and Ethical Issues or EEX 4070 Integrating Exceptional Students into the Regular Classroom
- EDF 4490 Studies in Research Design or EDF 4430 Measurement for Teachers or any measurement course for teachers
- EDF 3122 Learning and the Developing Child or EDF 3214 Human Development and Learning or EDF 4124 Child Growth and Learning
- Any pre-approved ESOL course offered by USF
- EDF 3604 Schools in Society

Concentration Electives (6 hours)

Any six (6) credit hours of 3000-4000 level coursework with the following prefixes: EDE, EDF, EDG, EDP, EEC, EVT, FLE, LAE, or TSL.

Note: Courses restricted to College of Education majors, field experience and/or internship courses will not be approved as electives for the concentration.

ENVIRONMENTAL POLICY (GEM) CONCENTRATION

http://ugs.usf.edu/catalog/?category=majors&amp;

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

REQUIREMENTS FOR THE CONCENTRATION IN ENVIRONMENTAL POLICY

TOTAL CONCENTRATION HOURS: 25

CONCENTRATION CORE (7 HOURS)

- EVR 2001 Introduction to Environmental Science
- EVR 2001L Environmental Science Lab
- EVR 2861 Introduction to Environmental Policy
Concentration Electives (15 hours)

Choose 9 credits from the following:
- EVR 4027 Wetland Environments
- EVR 4033 Environmental Regulation
- EVR 4104 Karst Environments
- EVR 4114 Climate Change
- GEO 4502 Economic Geography

Choose 6 credits from the following:
- EVR 4807 Sustainable Healthy Environments
- EVR 4930 Selected Topics
- GEO 4340 Natural Hazards
- GEO 4372 Global Conservation
- GEO 4421 Cultural Geography
- GEO 4471 Political Geography
- GEO 4604 Topics in Urban Geography
- GEO 4700 Transportation Geography
- GIS 4043C Geographical Information Systems
- PAD 3003 Introduction to Public Administration
- PAD 4144 Non-Profit Organizations and Public Policy
- PAD 4930 Selected Topics in Public Administration and Public Policy
- POS 3142 Introduction to Urban Politics and Government
- POS 3182 Florida Politics and Government
- URP 4052 Urban and Regional Planning

INFORMATION STUDIES: INFORMATION ARCHITECTURE (GFA) CONCENTRATION

http://ugs.usf.edu/catalog/?category=majors&

The Information Architecture concentration provides students with the foundational technical knowledge, information design theory, and best practices supporting designing, organizing, classifying, and improving web sites and other online applications, organization intranets, social networking applications and online communities, and software for a variety of organizations. The Information Architect's career opportunities may be in information architecture, project management, design, analysis, usability testing, planning, user interaction design, universal access design, web database design, customer management, and other information related fields.
REQUIREMENTS FOR THE CONCENTRATION IN INFORMATION STUDIES: INFORMATION ARCHITECTURE

TOTAL CONCENTRATION HOURS: 24

CONCENTRATION CORE (18 HOURS)

- LIS 3261 Introduction to Information Science
- LIS 3353 IT Concepts for Information Professionals
- LIS 3783 Information Architecture
- LIS 3361 World Wide Web Page Design and Management
- LIS 3352 Interaction Design
- LIS 4365 Web Design Technologies

Concentration Electives (3 hours)
Choose three credit hours from the following list of courses:

- CDA 3101 Computer Organization for Information Technology
- CEN 3722 Human Computer Interfaces for Information Technology
- CEN 4031 Software Engineering Concepts for Information Technology
- CGS 3303 IT Concepts
- CGS 3845 Electronic Commerce
- CGS 3847 Portal Development and E-Commerce
- CGS 3850 Web Development: JavaScript & jQuery
- CGS 3853 IT Web Design for IT
- CGS 4855 Intermediate Web Development (jQuery)
- CIS 3360 Principles of Information Security
- CIS 3362 Cryptography and Information Security
- CIS 3367 Architecting Operating System Security
- CIS 3932 Special Topics for Information Technology
- CIS 4204 Ethical Hacking
- CIS 4253 Ethics for Information Technology
- CIS 4361 Information Technology Security Management for IT
- CIS 4365 Computer Security Policies and Disaster Preparedness
- CIS 4368 Database Security and Audits
- CIS 4412 Resource Management for IT
- CIS 4510 IT Project Management
- CIS 4932 Special Topics for Information Technology
- CIS 4935 Senior Project in Information Technology
- COP 1930 Special Topics for Information Technology
- COP 2930 Special Topics for Information Technology
- COP 2931 Special Topics for Information Technology
The Public Administration concentration courses will benefit those students preparing for a career in local, state, or federal agencies of government, non-profit organizations, and special service districts and/or graduate work in public administration and related fields.

REQUIREMENTS FOR THE CONCENTRATION IN PUBLIC ADMINISTRATION

TOTAL CONCENTRATION HOURS: 24

CONCENTRATION CORE (15 HOURS)

- PAD 3003 Introduction to Public Administration
- PAD 4144 Nonprofit Organizations and Public Policy
- PAD 4204 Public Financial Administration
- PAD 4415 Personnel & Supervision in Today’s Diverse Organizations
- PAD 4712 Managing Information Resources in the Public Sector
Concentration Electives (6 hours)
Choose six credit hours from the following list of courses:
- PAD 4930 Selected Topics in Public Administration and Public Policy
- POS 3182 Florida Politics and Government
- PUP 4002 Public Policy
- URP 4050 City Planning and Community Development
- URS 3002 Introduction to Urban Studies

PUBLIC HEALTH (GPU) CONCENTRATION
http://ugs.usf.edu/catalog/?category=majors&
Upon completion of the Public Health concentration coursework, a student will be able to articulate the role of public health in disease prevention and health promotion at the local, state, national and global level, describe public health concepts and issues, discuss and analyze current public health issues, describe career paths in public health, and develop an understanding of public health that can serve as a foundation for graduate coursework in the field.

REQUIREMENTS FOR THE CONCENTRATION IN PUBLIC HEALTH

TOTAL CONCENTRATION HOURS: 24

CONCENTRATION CORE (9 HOURS)
- HSC 4551 Survey of Human Diseases
- PHC 4030 Introduction to Epidemiology
- PHC 4101 Overview of Public Health Programs and Policies

Concentration Electives (12 hours)
Choose 12 credit hours from the following list of courses:
- HSC 4172 Women’s Health: A Public Health Perspective
- HSC 4211 Health, Behavior and Society
- HSC 4430 Occupational Health and Safety
- HSC 4504 Foundations of Public Health Immunology
- HSC 4573 Foundations of Food Safety
- HSC 4579 Foundations of Maternal and Child Health
- HSC 4624 Foundations of Global Health
- HSC 4630 Understanding U.S. Health Care
- HSC 4631 Critical Issues in Public Health
- HSC 4933 Special Topics in Public Health
- HUN 3126 Food and Culture
- HUN 3272 Sports Nutrition
- HUN 3296 Nutrition and Disease
- PHC 4031 Emerging Infectious Diseases
- PHC 4032 Foundations of Infection Control
- PHC 4069 Biostatistics in Society
- PHC 4720 Foundation to Professional Writing in Public Health
The Leadership Studies concentration is interdisciplinary in nature and is a significant benefit to students in all areas of study. Courses are designed to give students a practical and theoretical grasp of leadership on the basic assumption that leadership can be learned and, therefore, taught. The concentration has a unique approach to leadership that combines practical theories and opportunities for students to study the characteristics of authority, leadership, social and role dynamics, political processes and the values that orient their careers.

**REQUIREMENTS FOR THE CONCENTRATION IN LEADERSHIP STUDIES**

**TOTAL CONCENTRATION HOURS: 24**

**CONCENTRATION CORE (3 HOURS)**

- LDR 4104 Theories of Leadership

**Concentration Electives (18 hours)**

**Choose 3 credits from the following:**
- LDR 2010 Leadership Fundamentals
- LDR 3331 Leading in the Workplace

**Choose 9 credits from the following:**
- LDR 3214 Leadership in the Fraternal Movement
- LDR 3280 Leadership in the Political Context
- LDR 3930 Special Topics (repeatable with different topics)
- LDR 4114 Survey of Leadership Readings
- LDR 4164 Organizational Theories and Processes
- LDR 4564 Images of Leadership in the Media

**Choose 6 credits from the following:**
- LDR 3115 Contemporary Issues in Leadership
- LDR 3216 Leadership and Social Change
- LDR 3263 Community Leadership Practicum
- LDR 4204 Ethics and Power in Leadership
- LDR 4230 Global Leadership
The Urban Studies concentration offers students the opportunity to supplement their education and training with a focus on the problems and potential of the urban world around us. Understanding the economic, social, cultural, political and spatial phenomena of urban areas, and how they came to be, is essential if one is to thrive in today's world.

REQUIREMENTS FOR THE CONCENTRATION IN URBAN STUDIES

TOTAL CONCENTRATION HOURS: 24

CONCENTRATION CORE (6 HOURS)
- PAD 3003 Introduction to Public Administration
- URS 3002 Introduction to Urban Studies

Concentration Electives (15 hours)
Choose 6 credits from the following:
- URP 4050 City Planning and Community Development
- URP 4052 Urban and Regional Planning
- URP XXXX Approved course or URS XXXX Approved course

Choose 9 credits from the following:
- AMH 3500 American Labor History
- AMS 3700 Racism in American Society
- ARC 4784 The City
- CCJ 3014 Crime and Justice in America
- EVR 2861 Introduction to Environmental Policy
- GIS 3006 Mapping and Geovisualization
- IDS 4942 Community Internship
- PAD 4144 Nonprofit Organizations and Public Policy
- PAD 4204 Public Financial Administration
- PAD 4930 Selected Topics in Public Administration and Public Policy
- PAD 5035 Issues in Public Administration and Public Policy
- PAD 5807 Urban and Local Government Administration or POS 3142 Introduction to Urban Politics and Government
- POS 3182 Florida Politics and Government
- SOW 3210 The American Social Welfare System
- SPC 3710 Communication and Cultural Diversity
- SYD 4410 Urban Sociology
- TTE 4003 Transportation and Society
WOMEN'S AND GENDER STUDIES (GWS) CONCENTRATION

http://www.usf.edu/undergrad/programs/bgs/overview.aspx

REQUIREMENTS FOR THE CONCENTRATION IN WOMEN'S AND GENDER STUDIES

TOTAL CONCENTRATION HOURS: 24

CONCENTRATION CORE (6 HOURS)

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

- WST 3015 Introduction to Women's Studies
- Any WST Theory course (4000 level)

Concentration Electives (15 hours)

- COM 4030 Women and Communication
- SYD 4800 Gender and Society
- WST 2600 Human Sexual Behavior
- WST 3324 Women, Environment, and Gender
- WST 3370 Women and Social Action
- WST 4002 Feminist Research Methods
- WST 4262 Literature by Women of Color in the Diaspora
- WST 4310 History of Feminism in the US
- WST 4320 Politics and Issues in Women's Health
- WST 4522 Classics in Feminist Theory
- WST 4561 Contemporary Feminist Theory
- WST 4930 Selected Topics
- WST 3006 Careers and Professionalism in WGS
- WST 3334 Queer Film & Television
- WST 3380 Sexualities Studies
- WST 3602 Introduction to LGBTQ Cultures
- WST 4336 Feminist Theories of Media & Popular Culture
- WST 4645 Queer Theory
MINOR IN AEROSPACE STUDIES (AEO)

TOTAL MINOR HOURS: 16

http://www.usf.edu/undergrad/programs/minors/aerospace-studies.aspx

The Minor in Aerospace Studies provides students with an understanding of management and leadership concepts as they relate to military officers. Additionally, students analyze the evolution of American defense policy and strategy, with emphasis placed on the development of individual communication skills.

REQUIREMENTS FOR THE MINOR IN AEROSPACE STUDIES

MINOR CORE (12 HOURS)

- AFR 3220 Air Force Leadership and Management I
- AFR 3231 Air Force Leadership and Management II
- AFR 4201 National Security Affairs and Preparation for Active Duty I
- AFR 4211 National Security Affairs and Preparation for Active Duty II

MINOR ELECTIVES (4 HOURS)

- AFR 1101 Foundation of the United States Air Force Part I
- AFR 1120 Foundation of the United States Air Force Part II
- AFR 2130 The Evolution of USAF Aerospace Power Part I
- AFR 2140 The Evolution of USAF Aerospace Power Part II

Students will not be able to use credit through exam or independent study for application to the minor.

GPA REQUIREMENTS

A minimum GPA of 2.0 is required in all courses used to satisfy the minor.

GRADING REQUIREMENT

Grades less than C (GPA of 2.0) or S grades will not be accepted.

RESIDENCY REQUIREMENT

A minimum of 12 of the 16 credit hours required must be earned at USF.

ADVISING INFORMATION

To declare the Aerospace Studies minor, please complete the form at http://www.usf.edu/undergrad/documents/main/afrotc-minor-declaration-form.pdf. Submit it by email or in person to CWY 408.
MINOR IN LEADERSHIP STUDIES (LDS)

TOTAL MINOR HOURS: 12

http://ugs.usf.edu/catalog/?category=minors&display=detail&min=LDS&code=7a146f49be4ab2f46a768c57ccf11f1d

The Leadership Studies minor 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 minor 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.

REQUIREMENTS FOR THE MINOR IN LEADERSHIP STUDIES

MINOR CORE (12 HOURS)

- LDR 2010 Fundamentals of Leadership
- LDR 4204 Ethics and Power in Leadership
- LDR 4230 Global Leadership
- LDR 4951 Leadership Capstone Seminar (to be taken as last course required for the Minor)

GPA REQUIREMENTS

The minimum GPA required for the minor is 2.0.

GRADING REQUIREMENT

A minimum grade of “C” (not C-) or better in each course is required.

RESIDENCY REQUIREMENT

At least 8 of the 12 credit hours required for this minor must be taken at USF.

OTHER INFORMATION

To request that the Leadership Studies minor be removed from your record, please email the UGS Dean's Office at ugs-dean@usf.edu.

ADVISING INFORMATION

To declare the Leadership Studies minor, please complete the form at http://www.usf.edu/undergrad/documents/main/leadership-studies-minor-declaration-form.pdf. Submit it by email at ugs-dean@usf.edu or in person to the Office of Undergraduate Studies.
MINOR IN MILITARY LEADERSHIP (MTY)

TOTAL MINOR HOURS: 18

http://www.usf.edu/undergrad/programs/minors/military-science.aspx

The Military Leadership minor is coordinated through the Department of Military Science and 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, physical and mental fitness and military small unit operations.

REQUIREMENTS FOR THE MINOR IN MILITARY LEADERSHIP

MINOR CORE (14 HOURS)

- MSL 3201C Adaptive Team Leadership
- MSL 3202C Leadership in Changing Environments
- MSL 4301C Developing Adaptive Leaders
- MSL 4302C Leadership in a Complex World
- MSL 2900* Army Physical Readiness

*Repeated for two semesters; may be repeated up to four semesters, however only two credits will count toward minor.

MINOR ELECTIVES (4 HOURS)

Choose four credit hours from the following list of courses:

- MSL 1001C Leadership and Personal Development
- MSL 1002C Introduction to Tactical Leadership
- MSL 2101C Innovative Team Leadership
- MSL 2102C Foundations of Tactical Leadership
- MSL 2901 Basic Leader Training
- MSL 4930 Advanced Directed Study and Research
- AFR 1101 The Foundation of the United States Air Force Part 1
- AFR 1120 The Foundations of the United States Air Force Part 2
- AFR 2130 Evolution of USAF Air and Space Power, Part 1
- AFR 2140 Evolution of USAF Air and Space Power, Part 2
- AFR 3220 Air Force Leadership and Management I
- AFR 3231 Air Force Leadership and Management II
- AFR 4201 National Security Affairs & Preparation for Active Duty I
- AFR 4211 National Security Affairs & Preparation for Active Duty II

GPA REQUIREMENTS

The student must maintain a 2.0 GPA in the coursework required for minor.

GRADING REQUIREMENT

A minimum grade of C or better must be maintained in each course. S grades will not be accepted.
RESIDENCY REQUIREMENT
A minimum of 14 of the 18 hours must be earned at USF.

ADVISING INFORMATION
To declare the Military Leadership minor, please complete the form at http://www.usf.edu/undergrad/documents/main/arotc-minor-declaration-form.pdf. Submit it by email or in person to CWY 408.

MINOR IN NAVAL SCIENCE AND LEADERSHIP (NSL)

TOTAL MINOR HOURS: 18

The minor in Naval Science and Leadership is coordinated through the Department of Naval Science and 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.

REQUIREMENTS FOR THE MINOR IN NAVAL SCIENCE AND LEADERSHIP

MINOR CORE (12 HOURS)
- NSC 1110 Introduction to Naval Science
- NSC 1140 Sea Power and Maritime Affairs
- NSC 2231 Principles of Naval Management I
- NSC 4232 Principles of Naval Management II

MINOR ELECTIVES (6 HOURS)
Choose six credit hours from the following list of courses:
- NSC 2121 Naval Ship Systems I
- NSC 2212C Navigation/Naval Operations I: Navigation
- NSC 2220 Evolution of Warfare
- NSC 3123 Naval Ship Systems II
- NSC 3214C Navigation/Naval Operations II: Seamanship and Ship Operations
- NSC 4224 Amphibious Warfare

GPA REQUIREMENTS
The student must maintain a 2.0 GPA in the coursework required for the minor.

GRADING REQUIREMENT
A minimum grade of "C" or better must be maintained in each course. "S" grades will not be accepted.

RESIDENCY REQUIREMENT
A minimum of 14 of the 18 credit hours must be earned at USF.
ADVISING INFORMATION

To declare the Naval Science and Leadership minor, please complete the form at http://www.usf.edu/undergrad/documents/main/nrotc-minor-declaration-form.pdf. Submit it by email or in person to CWY 408.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>ACG 2071</td>
<td>Principles of Managerial Accounting (3)</td>
<td>Study of the accountant's role in assisting management in the planning and controlling of business activities.</td>
</tr>
<tr>
<td>ACG 3074</td>
<td>Managerial Accounting for Non-Business Majors (3)</td>
<td>The study of the uses of accounting data internally by managers in planning and controlling the affairs of organizations.</td>
</tr>
<tr>
<td>ACG 3341</td>
<td>Cost Accounting and Control I (3)</td>
<td>Deals with cost accounting systems for different entities, cost behavior patterns, cost-volume-profit analysis, relevant information for decision making, and budgets and standard costs for planning and control.</td>
</tr>
<tr>
<td>ACG 3401</td>
<td>Accounting Information Systems (3)</td>
<td>This course provides students with a basic understanding of well-controlled information systems in a variety of technological environments with added emphasis on the collection, processing, and reporting of accounting information.</td>
</tr>
<tr>
<td>ACG 4123</td>
<td>Intermediate Financial Accounting III (3)</td>
<td>PR: ACG 3113 with a grade of C or better, not C- Theory and practice underlying stockholders’ equity, dilutive securities and EPS, derivatives, revenue recognition, post-retirement benefits, error analysis, full disclosure, and other current accounting topics.</td>
</tr>
<tr>
<td>ACG 4351</td>
<td>Cost Accounting and Control II (3)</td>
<td>PR: ACG 3103 and ACG 3341 with a grade of C or better, not C- Application of the material covered in ACG 3341 with specific emphasis on cost allocations, performance measurements, analysis of current cost accounting systems and accounting in today's environment (giving consideration to the influences of the international environment).</td>
</tr>
<tr>
<td>ACG 4632</td>
<td>Auditing I (3)</td>
<td>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.</td>
</tr>
<tr>
<td>ACG 4642</td>
<td>Auditing II (3)</td>
<td>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.</td>
</tr>
<tr>
<td>ACG 4901</td>
<td>Independent Study (1-3)</td>
<td>Specialized independent study determined by the students' needs and interests.</td>
</tr>
<tr>
<td>ACG 4911</td>
<td>Independent Research (1-4)</td>
<td>Individual study contract with instructor and director required. The research project will be mutually determined by the student and instructor.</td>
</tr>
<tr>
<td>ACG 4931</td>
<td>Selected Topics in Accounting (1-3)</td>
<td>The course content will depend on student demand and instructor's interest.</td>
</tr>
<tr>
<td>ACG 4940</td>
<td>Accounting Internship (3)</td>
<td>The course consists of two components: an academic component focused on professional development skills and an on-site experiential learning experience comprised of at least 120 hours of on-site experience.</td>
</tr>
<tr>
<td>ACG 4970</td>
<td>Accounting Honors Thesis (3)</td>
<td>6ACT, 6ACT, WRIN This course is the climax of an undergraduate experience in the College of Business. Thesis development supports critical investigation to develop explanations or solutions to academically interesting business problems or opportunities.</td>
</tr>
</tbody>
</table>

For Current Course Inventory, see [https://www.systemacademics.usf.edu/course-inventory/](https://www.systemacademics.usf.edu/course-inventory/)
### COURSE DESCRIPTIONS

**UNIVERSITY OF SOUTH FLORIDA 2019-20 UNDERGRADUATE CATALOG**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Prerequisites</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACG 5205</td>
<td>Advanced Financial Accounting (3)</td>
<td>PR: ACG 3113</td>
<td>Accounting for business combinations, preparation of consolidated financial statements, home office/branch relationships, foreign operations and transactions, partnerships.</td>
</tr>
<tr>
<td>ACG 5505</td>
<td>Governmental/Not-For-Profit Accounting (3)</td>
<td>PR: ACG 3113</td>
<td>Application of financial and managerial accounting, and auditing, principles and theory to both governmental and not-for-profit entities.</td>
</tr>
<tr>
<td>ACG 5675</td>
<td>Internal and Operational Auditing (3)</td>
<td>PR: ACG 3113 and ACG 3401</td>
<td>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.</td>
</tr>
<tr>
<td>ACG 5841</td>
<td>Analytics in Accounting (3)</td>
<td>PR: ACG 4632, or admission to Muma COB MBA program</td>
<td>This course deals with analytics, understood as the discovery and communication of meaningful patterns. The focus is on accounting applications of analytics, after first understanding statistical techniques and data manipulation processes and tools.</td>
</tr>
<tr>
<td>ADE 4384</td>
<td>Working With the Adult Learner (3)</td>
<td></td>
<td>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.</td>
</tr>
<tr>
<td>ADV 2214</td>
<td>Graphic Programs in Mass Communications (3)</td>
<td></td>
<td>Introduction to visual communication theory and applications, emphasizing the history, principles, and practices of design in mass media. Students will apply principles to develop and construct media content for global audiences.</td>
</tr>
<tr>
<td>ADV 3008</td>
<td>Introduction to Advertising (3)</td>
<td>PR: MMC 2100 and MMC 3602</td>
<td>A study of the structures, functions, and persuasive language of advertising in mass media with attention to social, political, economic, and legal aspects.</td>
</tr>
<tr>
<td>ADV 3101</td>
<td>Advertising Creativity (3)</td>
<td>PR: ADV 3008 and ECO 1000</td>
<td>Study of copywriting and art direction in the creation of advertising messages for alternative media platforms. Restricted to majors only.</td>
</tr>
<tr>
<td>ADV 3200</td>
<td>Advertising Design (3)</td>
<td>PR: ADV 3008 (for advertising sequence majors) or VIC 3001 (for other Mass Comm majors)</td>
<td>Application of graphic design principles to various areas of advertising. Combining visual and verbal elements effectively.</td>
</tr>
<tr>
<td>ADV 3300</td>
<td>Advertising Media Strategy (3)</td>
<td>PR: ADV 3008 and ECO 1000</td>
<td>Problems, techniques, strategy of media research, planning, budgeting and effective utilization in advertising.</td>
</tr>
<tr>
<td>ADV 3500</td>
<td>Advertising Research (3)</td>
<td>PR: ADV 3008</td>
<td>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.</td>
</tr>
<tr>
<td>ADV 4204</td>
<td>Advanced Advertising Creativity (3)</td>
<td>PR: ADV 3101, ADV 3300, ADV 3500, ADV 4600, ECO 1000, MAR 3023</td>
<td>Focused on producing advertising messages, the curriculum integrates: ethics, branding, consumer insight, message strategy, concepeting, persuasion, copywriting, design, and presentations. Students learn to execute effective advertising messages.</td>
</tr>
<tr>
<td>ADV 4301</td>
<td>Advanced Media Strategy (3)</td>
<td>PR: ADV 3101, ADV 3300, ADV 3500, ADV 4600, ECO 1000, MAR 3023</td>
<td>Emphasizing decision making and critical thinking, this advanced course prepares students for the complexities of advertising media planning, implementation, and evaluation.</td>
</tr>
<tr>
<td>ADV 4310</td>
<td>Digital Media (3)</td>
<td>PR: ADV 3101, ADV 3300, ADV 3500, ADV 4600, ECO 1000, MAR 3023</td>
<td>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.</td>
</tr>
<tr>
<td>ADV 4600</td>
<td>Advertising Management (3)</td>
<td>PR: ADV 3008, ADV 3101, ADV 3300</td>
<td>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.</td>
</tr>
</tbody>
</table>

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ADV 4710 Portfolio Building (3)  
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)  
PR: ADV 3101, ADV 3300, ADV 3500, ECO 1000, and MAR 3023  
Advanced advertising course requiring planning and production of complete general advertising campaign, including research, production methods, budgeting, and media schedules.

ADV 4940 Advertising Internship (1-3)  
CPR: ADV 3008 with a minimum grade of C  
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.

ADV 5005 Advertising Planning (3)  
Introduction to the process of developing advertising strategy, emphasizing theory and research methods. Applied research course to bridge research methods with execution of creative messaging strategies that drive business success.

ADV 5508 Return on Advertising Investment (3)  
An in-depth analysis of the performance metrics required to determine the success of advertising and marketing in fiscally accountable business practice. Metrics will include both quantitative and qualitative measures of advertising planning.

ADV 5825 Advertising Proseminar (3)  
Students will learn the basic concepts of advertising, public relations, promotion, branding, and direct marketing and their applications for integrated marketing campaigns.

AFA 2000 Introduction to the Black Experience (3)  
6ACT, 6ACT, CASB, ELWP, SMEL, SPHU, TGED  
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 (3)  
CAGC  
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 (3)  
6ACP, 6ACT, 6ACT  
An examination of the historical and current political, economic, and cultural relations between the United States and Africa.

AFA 4335 Black Women in America (3)  
6ACT, 6ACT, CPST  
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 (3)  
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 (3)  
CPST, HHCP  
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 (3)  
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 4713 Haiti: Legacy of Resilience and Freedom (3)  
GCPC, GCPC  
To acquire a more in-depth understanding of the country's leadership history in order to contribute to the longstanding nation-building projects of the republic. Students examine seminal texts from historians, literary scholars and political scientists.

AFA 4900 Directed Readings (2-3)  
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)  
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.
<table>
<thead>
<tr>
<th>Course Code</th>
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</tr>
</thead>
<tbody>
<tr>
<td>AFH 3100</td>
<td>African History to 1850 (3)</td>
<td>CAHU, HHCP</td>
<td>Introductory survey of African history, from the beginning of the continent’s recorded history, to 1850. Course teaches skills reflected in the core foundations of knowledge in the General Education Curriculum.</td>
</tr>
<tr>
<td>AFH 3200</td>
<td>African History since 1850 (3)</td>
<td>CAHU, HHCP</td>
<td>Introductory survey of the history of Africa since 1850. Course looks at the state of the African continent in 1850 and the local and global factors that have shaped Africa’s history since that time.</td>
</tr>
<tr>
<td>AFR 1101</td>
<td>The Foundation of the United States Air Force Pt 1 (1)</td>
<td></td>
<td>Intro Air Force Reserve Officer Training Corps (AFROTC) &amp; 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.</td>
</tr>
<tr>
<td>AFR 1120</td>
<td>The Foundations of the United States Air Force Pt 2 (1)</td>
<td></td>
<td>A study of Air Force installations, Core Values, Leadership, Team Building, and Diversity within Armed Forces. AFR 2001 Lead Lab augments course providing followership and leadership experiences, utilizing leadership and management principles.</td>
</tr>
<tr>
<td>AFR 1903</td>
<td>Directed Independent Studies (1-4)</td>
<td></td>
<td>Directed Independent Study.</td>
</tr>
<tr>
<td>AFR 2001</td>
<td>Air Force ROTC Leadership Laboratory (0)</td>
<td></td>
<td>Leadership Laboratory is required for each of the Aerospace Studies courses. It meets one hour and 45 minutes per week. Instruction is conducted within the framework of an organized cadet corps with a progression of experiences designed to develop each student's leadership potential. Leadership Laboratory involves a study of Air Force customs and courtesies; drill and ceremonies; career opportunities in the Air Force; and the life and work of an Air Force junior officer. Students develop their leadership potential in a practical laboratory, which typically includes field trips to Air Force installations.</td>
</tr>
<tr>
<td>AFR 2130</td>
<td>Evolution of USAF Air and Space Power, Part I (1)</td>
<td>CR: AFR 2001</td>
<td>A study of air power from balloons and dirigibles through the jet age. Emphasis is on the employment of air power in WWI and WWII and how it affected the evolution of air power concepts and doctrine.</td>
</tr>
<tr>
<td>AFR 2140</td>
<td>Evolution of USAF Air and Space Power, Part II (1)</td>
<td>CR: AFR 2001</td>
<td>A historical review of air power employment in military and nonmilitary operations in support of national objectives. Emphasis is on the period from post WWII to present.</td>
</tr>
<tr>
<td>AFR 3220</td>
<td>Air Force Management and Leadership I (3)</td>
<td>CR: AFR 2001</td>
<td>An integrated management course emphasizing the individual as a manager in an Air Force milieu. The individual motivational and behavioral processes, leadership, communication, and group dynamics are covered to provide a foundation for the development of the junior officer's professional skills as an Air Force officer (officership). The basic managerial processes involving decision making, utilization of analytic aids in planning, organizing, and controlling in a changing environment are emphasized as necessary professional concepts.</td>
</tr>
<tr>
<td>AFR 3231</td>
<td>Air Force Management and Leadership II (3)</td>
<td>CR: AFR 2001</td>
<td>A continuation of the study of Air Force advancement and leadership. Concentration is on organizational and personal values, management of forces in change, organizational power, politics, and managerial strategy and tactics are discussed within the context of the military organization. Actual Air Force cases are used to enhance the learning and communication processes.</td>
</tr>
<tr>
<td>AFS 2250</td>
<td>Culture and Society in Africa (3)</td>
<td>6ACT, 6ACT</td>
<td>Topics include: African religion, value systems, art and the aesthetics, family and life-cycle, impact of Islam and Christianity and conflict of cultures.</td>
</tr>
<tr>
<td>COURSE DESCRIPTIONS</td>
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<tr>
<td>UNIVERSITY OF SOUTH FLORIDA 2019-20 UNDERGRADUATE CATALOG</td>
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</tbody>
</table>

### AFS 3251 Environmental - Cultural Study in Africa (3)
**PR:** AFS 2250  
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)
**PR:** 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 (3)
**CAHU, HHCP, SMEL, SMSS**  
This class is an introductory survey of American history from Columbus and "First Contact" to Reconstruction.

### AMH 2020 American History II (3)
**CASB, HHCP, SCIV, SGES, SMEL, SMSS, SPSS**  
A history of the United States with attention given to relevant developments in the Western Hemisphere from 1877 to the present.

### AMH 3098 Race in America (3)
This course explores the histories of race, ethnicity, immigration, racism, and racial formation in the United States. The course will treat race as both a social construction and a category of lived experience that has had very real historical effects.

### AMH 3110 American Colonial History to 1750 (3)
**CAHU, HHCP, SCIV, SGES, SMEL, SMSS**  
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 (3)
Emphasis on the causes of the American revolution, the nature of Constitution-making, and the establishment of the federal system. Also examines the significance of loyalism, violence, and slavery in American society from 1750-1789.

### AMH 3140 The Age of Jefferson (3)
A comprehensive study of American society and political culture from 1789-1828. Focuses on demographic trends, party systems, expansionism, Indian policy, labor, and ethnic-cultural conflicts.

### AMH 3150 The Age of Jackson (3)
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 (3)
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 (3)
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 (3)
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 (3)
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 3341 American Food and Drink History (3)
Traces the history of American food and beverages from the pre-contact era to the present. Examines the cultural, social, economic, and global aspects of food production and consumption and the intersection between food culture, traditions, and history.

### AMH 3342 Globalization and U.S. Culture (3)
**GCPC, GCPC**  
This course examines how the U.S. has influenced global culture, food, technology, economic practices, and political ideas, but also how global processes and trends have, in turn, shaped U.S. culture and society. The focus is from 1776-present.

### AMH 3390 19th Century America History (3)
A comprehensive history of society, culture, and politics in the long nineteenth century, 1783-1914. Focuses on the development of liberalism, capitalism, democracy, imperialism, slavery, and religion.

### AMH 3402 Southern History, 1607-1865 (3)
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.

For Current Course Inventory, see [https://www.systemacademics.usf.edu/course-inventory/](https://www.systemacademics.usf.edu/course-inventory/)
AMH 3403 The South since 1865 (3)
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 (3)
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 (3)
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 (3)
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 (3)
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 (3)
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 3533 The Irish in America (3)
This course examines the origins of Irish migration, the history of Irish people and their descendants in America, and the connections and interactions between the Irish at home and abroad.

AMH 3545 War and American Empire (3)
The U.S. evolved in 200 years from 13 colonies to the number one power in the world. To achieve this goal we utilized war to achieve empire. This course will examine the link between American War and empire from the Revolution through Viet Nam.

AMH 3561 American Women I (3)
A study of women in the evolution of American society from European origins to 1877. Women's roles in the family, economy, politics, wars, and reform movements will be examined.

AMH 3562 American Women II (3)
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 (3)
CAHU, HHCP
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 (3)
CAHU, HHCP
This course explores the history of African Americans since 1865. Major topics include the struggle for equality, class and gender dimensions of the Black freedom struggle, and the varied approaches in the fight against oppression and inequality.

AMH 3630 American Environmental History (3)
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 4940 Early American History and Archaeology Internship (6)
This course is a five week long summer practicum in early American historical archaeology. The class brings together historical research, material culture studies, and historical archaeology methods within a professional historical archaeology setting.

AML 3031 American Literature From the Beginnings to 1860 (3)
A study of representative works from the period of early settlement through American Romanticism, with emphasis on such writers as Cooper, Irving, Bryant, Hawthorne, Emerson, Melville, Thoreau, and Poe, among others.

AML 3032 American Literature From 1860 to 1912 (3)
A study of representative works of selected American Realists and early Naturalists, among them Whitman, Dickinson, Twain, James, Howells, Crane, Dreiser, Wharton, Robinson, Dunbar, and Johnson.

AML 3051 American Literature From 1912-1945 (3)
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 3243 American Literature 1945 to the Present (3)
This course traces some of the critical developments in Contemporary American literature, investigating forms of experimentation in contemporary works and relating various thematic modes to aesthetics, literary genres, and important cultural events.

AML 3413 Historical Perspectives in Early American Literature (3)
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 (3)
6ACP, 6ACT, 6ACT, ELWP, WRIN
A study of black American literature from the nineteenth century to the present, including the works of such writers as W.E.B. DuBois, Jean Toomer, Langston Hughes, Richard Wright, Ralph Ellison, LeRoi Jones, and Nikki Giovanni.

AML 3630 U.S. Latino/Latina Literature in English (3)
PR: ENC 1101 and ENC 1102
SMCD
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 ValdÁez, TomÁs Rivera, Oscar Hijuelos, etc.

AML 3641 Native American Literature and Film (3)
A survey of Native American literature and films written and produced from the 1960s to the present. It will emphasize the cultural and political contexts out of which these productions emerge by analyzing political cartoons, articles, discourses, etc.

AML 3674 Asian American Literature and Film (3)
This course is a critical survey of Asian American popular culture, especially literature and film. We will emphasize the social and political contexts out of which these productions emerge by analyzing political cartoons, news articles, and discourses.

AML 4111 Nineteenth-Century American Novel (3)
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 4211 Twentieth-Century American Novel (3)
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)
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)
The study of two or three related major authors in American literature. The course may include such writers as Melville and Hawthorne, Hemingway and Faulkner, James and Twain, Pound and Eliot, Stevens and Lowell, etc. Specific topics will vary. May be taken twice for credit with different topics.

AML 4624 Black Women Writers (3)
6ACP, 6ACT, 6ACT, ELWP
Black women writers focuses on the literature of women of Africa and the African Dispora. It examines the social, historical, artistic, political, economic, and spiritual lives of Africana women in context of a global community.

AMS 2030 Introduction to American Studies (3)
CAHU, HHCP
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 (3)
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 (3)
CAHU, HHCP
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 (1-3)
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 (3)
6ACT, 6ACT
Integration of major aspects of American life between the 1880s and World War I.
COURSE DESCRIPTIONS
(AS OF MARCH 1, 2019)

UNIVERSITY OF SOUTH FLORIDA 2019-20 UNDERGRADUATE CATALOG

AMS 3212 Nineteenth-Century American Culture (3)
An examination of cultural patterns in America from 1776 to 1900 with an emphasis on the texture of everyday life.

AMS 3230 America During the 1920s and 1930s (3)
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 (3)
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.

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Examines the patterns of American culture in the years leading up to the Civil War. Topics include religion and social reform, race relations, and the impact of industrialization.

AMS 3302 Architecture and the American Environment (3)
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 (3)
This course will identify the myths surrounding Southern women, discern their sources and purposes, and contrast them with history.

AMS 3601 Material Culture and American Society (3)
By means of slides, lectures and student projects, examines connections between artifacts and American cultural attitudes from 17th century to present. Topics include: architecture, furniture, gravestones, toys, and the material subcultures of women, African-Americans and communal societies.

AMS 3605 Working Class Culture in America (3)
An interdisciplinary examination of the cultural identity of American working class families from WWII to present.

AMS 3615 Film & American Society (3)
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 (3)
CASB
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 (1-3)
Offerings include Cultural Darwinism in America, America Through Foreign Eyes, and The Female Hero in American Culture.

AMS 4210 Regions of America (3)
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)
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 (3)
CPST
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)
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 (1-3)
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 4932 Topics in American Film (3)
Topical course on American film genres and themes. Variable topics such as: series on a region, performer, subject, or period of time.

AMS 4935 Senior Seminar in American Studies (3)
PR: HUM 3804, HUM 4331 and AMS 4936
CPST
The American Studies Senior Seminar focuses on the writing of a substantial research paper. Topic varies.

For Current Course Inventory, see https://www.systemacademics.usf.edu/course-inventory/
### AMS 4936 American Studies Pro-Seminar (3)
**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 (1-3)
A structured, out-of-class learning experience designed to provide first-hand, practical training in careers related to American Studies.

### ANG 5395 Visual Anthropology (3)
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)
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)
Individual guidance in concentrated reading on a selected topic in Anthropology. Contract required prior to registration.

### ANG 5910 Individual Research (2-4)
Individual guidance in selected research project.

### ANG 5937 Seminar In Anthropology (2-4)
Topics to be chosen by students and instructor.

### ANT 2000 Introduction to Anthropology (3)
**CASB, SGES, SMEL, SMSS, SPSS**
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 (3)
**6ACT, CAGC, SMEL, SMSS, SPSS, TGED**
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)
**CAGC**
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 (3)
**CR:** ANT 2511L
**CANL, SPNS**
This is an overview of biological anthropology. It covers areas such as evolutionary theory and genetics (critical thinking and scientific process), human variation (diversity), and epidemiology (environment). It also has a historical component.

### ANT 2511L Biological Anthropology Laboratory (1)
**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 2721 Anthropology of Urban Education in a Globalizing Age (3)
**6ACT, 6ACT, TGEC**
How can anthropology address the major issues in education in the Greater Tampa Bay area? Classwork will help students develop proposals that address pressing educational concerns facing Tampa residents.

### ANT 3005 The Anthropological Perspective (3)
Presents the basic concepts of anthropology as they are relevant to contemporary life. Aims at enabling the student to understand the anthropologist's cross-cultural view of the human species as adapting through biosocial means to life on this planet.

### ANT 3101 Archaeology (3)
**6ACT, CAGC, HHCP, TGEI**
Focuses on critical thinking about the past, archaeological research. Methods, theory, web resources, and scientific analysis in the study of world prehistory, from human origins to modern times.

### ANT 3610 Linguistic Anthropology (3)
**GCPC, GCPC**
This course studies language comparatively in cultural and social contexts and examines the role of language in the interpretation of human experience.
ANT 4012 Fantastic Archaeology (3)
Mysteries including the Lost Continent of Atlantis, Ancient Astronauts, Piltdown Man, Psychic Archaeology, Noahâ€™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)
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)
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 4142 Old World Archaeology (3)
PR: ANT 3101
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)
PR: ANT 3101
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)
PR: ANT 3101
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)
PR: ANT 3101
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)
PR: ANT 3101
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)
PR: ANT 3101
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)
PR: ANT 3101
Describes and analyzes the sequence of cultural development in prehistoric South America. Cultures such as the Inca, Chavin, Mochica, Wari, Chimú are included. Emphasis on the environmental setting and the relationship between cultural ecology and the growth of civilization.

ANT 4172 Historical Archaeology (3)
PR: ANT 3101
6ACT, 6ACT
A survey and analysis of archaeology focused on the historic period. Laboratory research with data recovered from historic sites in addition to class work.
<table>
<thead>
<tr>
<th>Course Code</th>
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<th>Prerequisites</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANT 4180</td>
<td>Laboratory Methods in Archaeology (3)</td>
<td>ANT 3101</td>
<td>Data and materials recovered from archaeological survey and excavation are processed in the laboratory; includes artifact cleaning, cataloguing, identification, and analysis; soil flotation; reconstruction and conservation of artifacts, mapmaking, etc. May be offered as part of a summer (or other semester) field session. May be combined with Florida Archaeology and Field Methods in Archaeology.</td>
</tr>
<tr>
<td>ANT 4181</td>
<td>Museum Methods (3)</td>
<td>ANT 3101</td>
<td>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.</td>
</tr>
<tr>
<td>ANT 4183C</td>
<td>Archaeological Science (4)</td>
<td>ANT 3101</td>
<td>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.</td>
</tr>
<tr>
<td>ANT 4185</td>
<td>Ancient Diets (3)</td>
<td>ANT 3101</td>
<td>Study of archaeological remains informing us about ancient diet, including fauna and flora, microscopic soil and ceramic residues, chemical analyses of human tissues, coprolites, gut contents, tooth wear patterns, visual/artistic and written information.</td>
</tr>
<tr>
<td>ANT 4241</td>
<td>Anthropology of Religion (3)</td>
<td>ANT 2000, ANT 2410 6ACP, 6ACT, 6ACT, EMWP, WRIN</td>
<td>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.</td>
</tr>
<tr>
<td>ANT 4243</td>
<td>The Middle East and North Africa (3)</td>
<td>ANT 2410</td>
<td>Studying the beliefs and practices of Middle Eastern and North African societies through the perspective and engagement with humanity that is anthropology. The focus is on different Islamic societies, and the effects on them of western influence.</td>
</tr>
<tr>
<td>ANT 4260</td>
<td>Ancient Trade (3)</td>
<td>ANT 3101</td>
<td>This course focuses on long-distance trade and contact in ancient times, based on archaeological evidence and scientific studies, and how this informs us about sociopolitical systems and economic relations and how they vary over time and space.</td>
</tr>
<tr>
<td>ANT 4285</td>
<td>Oral History (3)</td>
<td>ANT 2410 GCPC, GCPC</td>
<td>A survey of history, methods and current applications of oral history research from an anthropological perspective.</td>
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<tr>
<td>ANT 4302</td>
<td>Gender in Cross-Cultural Perspective (3)</td>
<td></td>
<td>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.</td>
</tr>
<tr>
<td>ANT 4312</td>
<td>North American Indians (3)</td>
<td>ANT 2410</td>
<td>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.</td>
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<tr>
<td>ANT 4316</td>
<td>Ethnic Diversity in the United States (3)</td>
<td>ANT 2410 EMWP</td>
<td>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.</td>
</tr>
<tr>
<td>ANT 4323</td>
<td>Mexico and Central America (3)</td>
<td>ANT 2410</td>
<td>Focuses on the history, contemporary values and interpersonal relationships, and patterns of rural and urban life in Mesoamerica. Guatemala and Mexico are emphasized.</td>
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<tr>
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<td>PR/Co-reqs</td>
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<tr>
<td>ANT 4340</td>
<td>The Caribbean</td>
<td>ACT 2410</td>
<td>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.</td>
</tr>
<tr>
<td>ANT 4390</td>
<td>Visual Anthropology</td>
<td>ANT 2410</td>
<td>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 &quot;visual literacy.&quot; Review and evaluation of the uses of visual techniques and the evidence they provide to the social scientist.</td>
</tr>
<tr>
<td>ANT 4401</td>
<td>Exploring Cross-Cultural Diversity</td>
<td>CPST</td>
<td>This course will address a variety of challenging issues related to the general topic of cross-cultural diversity in contemporary American life.</td>
</tr>
<tr>
<td>ANT 4403</td>
<td>Environmental Anthropology</td>
<td>ANT 2410</td>
<td>Explores cultural, social, political, and economic dimensions of contemporary environmental problems. Emphasis placed on the links between local-level environmental degradation and broader regional and global forces.</td>
</tr>
<tr>
<td>ANT 4432</td>
<td>The Individual and Culture</td>
<td>ANT 2410</td>
<td>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.</td>
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<tr>
<td>ANT 4442</td>
<td>Urban Life and Culture</td>
<td>ANT 2410</td>
<td>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.</td>
</tr>
<tr>
<td>ANT 4462</td>
<td>Health, Illness, and Culture</td>
<td>ANT 2410</td>
<td>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.</td>
</tr>
<tr>
<td>ANT 4465</td>
<td>Anthropology of Food</td>
<td>ANT 2410</td>
<td>Examines the ways that anthropologists write and think about food, beginning with the basic anthropological perspective on food, then looking at food as a part of social rules and the life passage.</td>
</tr>
<tr>
<td>ANT 4468</td>
<td>Biocultural Bases of Health and Disease</td>
<td>ANT 2511/1005</td>
<td>Study of the socio-cultural and evolutionary bases of health and disease, including such factors as evolution, genetics, environment, and socio-economics.</td>
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<tr>
<td>ANT 4472</td>
<td>Work and Migration in the Americas</td>
<td>ANT 2410</td>
<td>With a focus on the intersections of class, race, gender, and citizenship, this course examines experiences of work and migration in the Americas to better understand the consequences of globalization.</td>
</tr>
<tr>
<td>ANT 4475</td>
<td>Anthropology of Childhood</td>
<td>ANT 2410</td>
<td>This course is an exploration of the emerging subfield of anthropology and childhood, engaging with literature on children, childhoods, and youth around the globe. Students read a wide variety of perspectives on anthropology and childhood.</td>
</tr>
<tr>
<td>ANT 4495</td>
<td>Methods in Cultural Research</td>
<td>ANT 2511</td>
<td>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.</td>
</tr>
<tr>
<td>ANT 4516</td>
<td>Human Variation</td>
<td>ANT 2511</td>
<td>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>
</tr>
</tbody>
</table>
ANT 4520C Forensic Anthropology (4)
PR: ANT 2511
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.

ANT 4525 Human Osteology and Osteometry (3)
PR: ANT 2511 and ANT 2511L
The identification of human skeletal remains, including: instrumentation and procedures; techniques for determining age at death, sex, and ancestry; and measurement of the human skeleton for comparative purposes.

ANT 4532 Anthropology of Infectious and Contagious Diseases (3)
PR: ANT 2410
CR: ANT 2511
This course is on communicable diseases and their transmission, cures, and change with time and technology. We will situate infectious and contagious diseases in their historical and cultural context by looking at the anthropology of these ideas.

ANT 4536 Bioarchaeology (3)
PR: ANT 2511 and ANT 2511L
The study of human skeletal remains from archaeological sites, drawing on techniques from archaeology, anatomy, biology, chemistry, pathology, demography, and history to reconstruct individual lives and collective population histories across the globe.

ANT 4586 Prehistoric Human Evolution (3)
PR: ANT 2511
A survey of the fossil record from the early primates through the ascent of Homo sapiens sapiens, focusing on the human lineage. Bioskial patterns and cultures of the past are also covered.

ANT 4593 Evolution and Health (3)
PR: ANT 2511
Using an evolutionary framework to develop scientific hypotheses, this course inquires into the origins and causes of illness. Students will use a variety of critical methods to track down evolutionary explanations for disease.

ANT 4620 Language and Culture (3)
PR: ANT 3610
6ACP, 6ACT, 6ACT
Examines the relationships between language and culture in cross-cultural perspective. Explores the extent to which languages shape the world views of their speakers. Emphasis on the nature and degree of fit between linguistics and other cultural systems of knowledge.

ANT 4701 Applied Anthropology (3)
CPST, GCPC, GCPC
A review of approaches to applying the anthropological perspective to contemporary human problems. Discussion of the historical development of applied anthropology, the ethics of applied research, and careers in applied settings.

ANT 4750 Language and Social Interaction (3)
PR: ANT 3610
6ACT, 6ACT
Examines the role of language and other modes of communication in the social settings of speech communities. Student field projects focus on the cross-cultural description and analysis of patterns of communication in ethnographic contexts.

ANT 4824 Archaeological Field Methods (4-12)
PR: ANT 3101
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.

ANT 4901 Directed Reading (1-4)
Individual guidance in concentrated reading on a selected topic in anthropology. Contract required prior to registration.

ANT 4905 Individual Research (2-4)
Individual guidance in a selected research project. Contract required prior to registration.

ANT 4930 Special Topics in Anthropology (1-3)
Topics to be chosen by students and instructor permitting newly developing subdisciplinary special interests to be explored.

ANT 4932 Honors Seminar (3)
Seminar designed to provide the honors student with an opportunity to present, discuss and defend his/her own research and to explore in-depth topics in several areas of anthropology.

ANT 4935 Rethinking Anthropology (3)
6ACP, 6ACT, 6ACT
This course is the senior seminar in anthropology. The objectives are to reflect upon and integrate major material covered in previous courses, to reflect upon the status on the discipline of anthropology and to allow students to determine where they see themselves within the discipline. We will reflect upon the four fields of anthropology and ethics, as well as key issues such as evolution, race, and culture, and students are encouraged to integrate their knowledge from previous classes.
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<tr>
<td>ANT 4940</td>
<td>Directed Internship Including Practicum (2-4)</td>
<td></td>
<td>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>
</tr>
<tr>
<td>ANT 4970</td>
<td>Honors Thesis (3)</td>
<td>PR: ANT 4932</td>
<td>The student under the supervision of a faculty member will formalize, conduct, analyze, and report in writing a research project in anthropology.</td>
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<tr>
<td>APK 3110</td>
<td>Exercise Physiology I (3)</td>
<td></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>
</tr>
<tr>
<td>APK 3120</td>
<td>Exercise Physiology (3)</td>
<td></td>
<td>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>
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<tr>
<td>APK 4134</td>
<td>Exercise Physiology II (3)</td>
<td></td>
<td>A study of Exercise Physiology focusing on the adult. Includes specific populations such as the obese, heart patients, arthritics, elderly, and high performance athletes.</td>
</tr>
<tr>
<td>APK 4136</td>
<td>Exercise Prescription for Strength &amp; Conditioning (3)</td>
<td>PR: APK 3110</td>
<td>Techniques in conducting health-fitness test and exercise prescription for adults. Includes cardiovascular strength, flexibility, body composition, health risk testing, exercise prescribing, and monitoring. Justification</td>
</tr>
<tr>
<td>ARA 1120</td>
<td>Modern Arabic I (4)</td>
<td></td>
<td>An intensive study of basic skills: pronunciation, listening comprehension, speaking and some composition.</td>
</tr>
<tr>
<td>ARA 1121</td>
<td>Modern Arabic II (4)</td>
<td>PR: ARA 1120 or its equivalent</td>
<td>A continuation of ARA 1120. More sophisticated oral/aural skills are attained. Basic reading skills are acquired.</td>
</tr>
<tr>
<td>ARA 2220</td>
<td>Modern Arabic III (4)</td>
<td>PR: ARA 1121 or the equivalent.</td>
<td>For language students who intend to attain basic proficiency.</td>
</tr>
<tr>
<td>ARA 2221</td>
<td>Modern Arabic IV (4)</td>
<td>PR: ARA2220 or the equivalent.</td>
<td>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)</td>
<td></td>
<td>Permits study options in Arabic not available in regularly scheduled curriculum at departmental discretion.</td>
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<tr>
<td>ARA 4930</td>
<td>Selected Topics (1-3)</td>
<td></td>
<td>Course permits classes in Arabic not available in the regularly scheduled curriculum at departmental discretion.</td>
</tr>
<tr>
<td>ARC 2112L</td>
<td>Architectural Freehand Drawing Methods (4)</td>
<td></td>
<td>This course provides an introduction to basic freehand drawing with an emphasis on observational drawing, mapping, gesture, and drawing as a means of orientation. The student is introduced to a wide range of drawing methods, media and concepts.</td>
</tr>
<tr>
<td>ARC 2131C</td>
<td>Introduction to Architectural Design and Graphics (4)</td>
<td></td>
<td>An introduction to fundamental &quot;critical thinking&quot; and graphic communication skills in architecture.</td>
</tr>
<tr>
<td>ARC 2135C</td>
<td>Introduction to Architectural Design &amp; Graphics II (4)</td>
<td>PR: ARC 2131.</td>
<td>This course explores fundamental issues of space-making and perception of space, scale and habitation. In addition, this course builds on the skills and knowledge developed in the first introductory course through analysis and interpretation of specific works.</td>
</tr>
<tr>
<td>ARC 2180</td>
<td>Introduction to Digital Architecture (3)</td>
<td>CAHU, HHCP</td>
<td>The Introduction to Digital Architecture course introduces students to various software utilized by Architects in the field such as, AutoCad, Sketch-up, StudioMax, Photoshop, etc.</td>
</tr>
<tr>
<td>ARC 2211</td>
<td>Introduction to Architecture (3)</td>
<td></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 (3)</td>
<td></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 (3)</td>
<td></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>
</tbody>
</table>
# COURSE DESCRIPTIONS

(AS OF MARCH 1, 2019)

## UNIVERSITY OF SOUTH FLORIDA 2019-20 UNDERGRADUATE CATALOG

### ARC 2931 Selected Topics (1-3)
Selected topics will include architectural diagramming, freehand drawing, model making, photography, and computer graphics. Courses are intended for nonmajors and are repeatable.

### ARC 4376 Architecture for Real Estate & Development (3)
The course introduces the basic processes necessary for large scale projects and developments. Numerous professions are explained from varying points of view to allow participants to better understand how buildings get built and land developed.

### ARC 4541 Physics for Architects (3)
**PR:** MAC 1105
Physics for Architects is a study of physical concepts/problems applicable to current and future graduate architecture student, creating a foundation for technical issues of structures, environmental technology & construction methods.

### ARC 4757 Made in Italy: Italian Design and Interdisciplinary Coherence (3)
6ACT, 6ACT, WRIN
This course explores Italian design as a way to understand the coherence among differing fields of study. By discovering shared cross-disciplinary themes found in Italian design, students will gain new insights which will enlighten their own studies.

### ARC 4784 The City (3)
6ACT, 6ACT
This course examines the history of the city, as both idea and reality, with a particular focus on Western cities, and the 20th century. The course is open to undergraduates and students in the Graduate Architecture Program.

### ARC 4884 Sustainable Neighborhood Development (3)
This course will focus on understanding and evaluating sustainable neighborhood development strategies, using multiple concepts, practices and approaches.

### ARC 4931 Selected Topics in Architecture and Community Design (1-3)
Variable topics will be offered for pre-professional studies for students in the Liberal Studies Major/ALA Degree Program and as electives for other undergraduates.

### ARC 5175 Computer Technology (3)
Introduction to the application of computer technology in current architectural practice. The exploration of available software, programs, and computer services for word processing, information handling, specification writing, feasibility analysis, cost estimating, economic performance and life cycle cost analysis, project management (network programming and analysis), computer graphics, computer aided design and drafting.

### ARC 5216 The Building Arts (3)
Introduction to the man-made environment. The study and profession of architecture. The various facets of the process of shaping the built environment as it manifests itself in the different roles and specialization of the experts involved the process, and in the various academic courses that prepare the architect for practice.

### ARC 5256 Design Theory (3)
Survey of major schools of thought in design theory, methods of design and problem-solving, and design research. The nature of the design activity and its recurring difficulties. The nature and different types of problems. Traditional approaches to problem-solving and design in architecture; recent systematic as well as intuitive approaches to problem-solving based on developments in other fields. Scientific method; the systems approach and design.

### ARC 5361 Core Design I (9)
First of two semester Design Fundamentals/Design Graphics sequence focusing on design abstractions and analysis of the factors influencing conceptual design. Emphasis is placed on ordering principles, pattern recognition and utilization, and figure-ground relationships. Development of craftsmanship, drawing as a means to design, and perceptual acuity are stressed.

### ARC 5362 Core Design II (9)
**PR:** ARC 5361
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.
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<tr>
<th>Course Code</th>
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<th>Description</th>
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<tbody>
<tr>
<td>ARC 5363</td>
<td>Core Design III (6)</td>
<td>ARC 5362, ARC 5467, ARC 5587, ARC 5731</td>
<td>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.</td>
</tr>
<tr>
<td>ARC 5364</td>
<td>Advanced Design A (6)</td>
<td>ARC 5363.</td>
<td>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.</td>
</tr>
<tr>
<td>ARC 5365</td>
<td>Advanced Design B (6)</td>
<td>ARC 5363.</td>
<td>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.</td>
</tr>
<tr>
<td>ARC 5366</td>
<td>Advanced Design C (6)</td>
<td>ARC 5363.</td>
<td>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.</td>
</tr>
<tr>
<td>ARC 5467</td>
<td>Materials and Methods of Construction (3)</td>
<td>ARC 5470.</td>
<td>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.</td>
</tr>
<tr>
<td>ARC 5470</td>
<td>Introduction to Technology (3)</td>
<td>ARC 5587.</td>
<td>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.</td>
</tr>
<tr>
<td>ARC 5587</td>
<td>Structures I (3)</td>
<td>ARC 5587.</td>
<td>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.</td>
</tr>
<tr>
<td>ARC 5588</td>
<td>Structures II (3)</td>
<td>ARC 5587.</td>
<td>Introduction to the concepts and theories of structural analysis and design of reinforced concrete systems and elements, including practical application in building construction. Prestressing, post-tensioning, hybrid assemblies. Fundamentals of wind and seismic design. Formwork, placement, and assembly techniques.</td>
</tr>
<tr>
<td>ARC 5689</td>
<td>Environmental Technology (3)</td>
<td>ARC 5467 and ARC 5470.</td>
<td>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.</td>
</tr>
<tr>
<td>ARC 5731</td>
<td>Architectural History I (3)</td>
<td>ARC 5467 and ARC 5470.</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. Varieties of methodological approaches to the analysis of historical architecture. The focus will be on the built environment of Europe and the Mediterranean basin.</td>
</tr>
</tbody>
</table>
ARC 5732 Architectural History II (3)
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)
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)
Summer study abroad. Location and description varies from year to year.

ARC 5794 Florida Architectural History (3)
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)
Summer study abroad. Location and description varies from year to year.

ARC 5931 Special Studies in Architecture (1-5)
Variable titles offered on topics of special interest.

ARH 2050 History of Visual Arts I (3)
6ACT, CAHU, HHCP, SPHU, TGEI
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 (3)
6ACT, CAHU, HHCP, SPHU, TGED
Survey of World Art since 1300 CE. Introduction to problems of analyzing and interpreting the art of various global cultures without making the Western perspective a privileged one.

ARH 3001 Introduction To Art (3)
CAFA, HHCP
This online course investigates the histories of art, asking a range of questions about periods, cultures, styles of art making. We explore the experience of viewing art, inquiring into its many forms and definitions, historically and in the present.

ARH 4115 Ancient Egyptian and Near Eastern Art (3)
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 (3)
A comprehensive study of ancient Greek sculpture, painting, architecture, and other artistic media from the Bronze Age through the Hellenistic period.

ARH 4151 Roman Art (3)
A comprehensive study of ancient Roman sculpture, painting, architecture, and other artistic media from the founding of Rome through the reign of Constantine.

ARH 4170 Greek and Roman Art (3)
A comprehensive study of Aegean, Mycenaean, Etruscan, Greek and Roman painting, sculpture and architecture.

ARH 4200 Medieval Art (3)
A comprehensive study of early Christian, Byzantine and Medieval painting, sculpture, architecture and manuscript illumination.

ARH 4301 Renaissance Art (3)
A comprehensive study of Renaissance and Mannerist painting, sculpture and architecture in Italy and Northern Europe.

ARH 4310 Early Italian Renaissance (3)
PR: ARH 2050 or ARH 2051
History of the visual arts in Italy from ca. 1220 to 1493, in the era commonly called the early Renaissance.

ARH 4312 Late Italian Renaissance (3)
PR: ARH 2050 or ARH 2051
This course focuses on the visual arts of Italy of the later Renaissance, from c. 1490 to 1576, with some reference to the broader context of art in the rest of Europe and the world.

ARH 4318 Venetian Art (3)
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 4333 Northern Renaissance Art (3)  
PR: ARH 2050 or ARH 2051  
Introduction to the history of Northern Renaissance Art, that is, art from northern Europe, esp. the Netherlands, Germany and France, from the late Middle Ages to the early modern era (14th through 16th centuries).

ARH 4350 Baroque and Rococo Art (3)  
A comprehensive study of the painting, sculpture and architecture in France, Italy, Spain and the Netherlands in the seventeenth and early eighteenth centuries.

ARH 4430 Nineteenth Century Art (3)  
A comprehensive study of nineteenth century painting, sculpture and architecture in America and Europe. Gender/multicultural issues and methodologies in 19th century art are emphasized.

ARH 4450 Twentieth Century Art (3)  
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 (3)  
The course explores art in which political themes are considered to be the source and determinant of aesthetic decisions. The dominant iconographic theme is the iconography of revolution, rebellion, and other forms of political struggle in 20th Century art and film.

ARH 4475C Contemporary Issues in Art (3)  
PR: ARH 4450  
EMWP  
A study of the principles and techniques of educational measurement as applied to the teaching of physical education; study of the functions and techniques of measurement in the evaluation of student progress toward the objectives of physical education.

ARH 4520 African Art (3)  
A combination of survey, comparative study and in-depth analysis of African sculpture, mainly from West and Central Africa. Emphasis on diversity of forms and contexts, functions, symbolism and meanings.

ARH 4530 Asian Art (3)  
An introduction to concepts of the arts of China, Japan and other Far Eastern countries.

ARH 4557 Chinese Art (3)  
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 (3)  
PR: ARH 2051  
6ACT, 6ACT, HHCP, WRIN  
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 (3)  
6ACT, 6ACT  
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 4744 Selected Topics in the History of Film (3)  
In-depth investigation of a selected period, development, or school in the history of film as art.

ARH 4800 Critical Studies in Art History (3)  
PR: Two advanced Art Histories  
6ACP, 6ACT, 6ACT  
Specialized intensive studies in art history. Specific subject matter varies. To be announced at each course offering.

ARH 4890 Paris Art History (3)  
PR: Minimum 8 hours of art history at the undergraduate level or equivalent.  
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 (1-3)  
Lecture/discussion course designed to offer areas of expertise of visiting scholars or specific interests of resident faculty.

ARH 5813 Methods of Art History (4)  
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)  
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.

For Current Course Inventory, see https://www.systemacademics.usf.edu/course-inventory/
# COURSE DESCRIPTIONS

(As of March 1, 2019)

**ART 2201C Concepts and Practices I (3)**
6ACT, CAFA, TGEC
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 (3)**
PR: ART 2201C
CAFA
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)**
Projects exploring the methods, media, and concepts of drawing.

**ART 2400C Beginning Printmaking (3)**
This course is designed as an introduction to the medium of printmaking. It concentrates on the technical production of various print media including: intaglio, relief, monoprint and serigraphy (screen printing).

**ART 2500C Beginning Painting (3)**
Projects in painting with emphasis on the exploration of methods and media and the development of individual concepts.

**ART 2701C Beginning Sculpture (3)**
Projects in sculpture with emphasis on contemporary theory and issues, the development of individual concepts and the exploration of materials, tools and processes.

**ART 2750C Beginning Ceramics (3)**
An introduction to the use of ceramic materials as a means of self expression and critical exploration.

**ART 2852 Arts of Resistance (3)**
GCPC, GCPC
Course will take a critical look at the arts as forms of resistance/protest. Topics include a brief history of the subject as well as contemporary landscape of this field. Students will develop projects using the arts as social practice.

**ART 2930 Selected Topics In Art (1-3)**
The content of this course will be determined by student demand and instructor interest. Open University offerings under this number may not be counted for degree credit for art majors.

**ART 3310C Intermediate Drawing (3)**
PR: ART 2301C
An extension of the skills and concepts introduced in Beginning Drawing with an emphasis on individual experimentation and the development of advanced critical and technical skills in the discipline. Repeatable up to 15 hours.

**ART 3380C Selected Topics in Drawing (3)**
PR: ART 2203C, ARH 2050, ARH 2051, ART 2301C, ART 3310C
Selected Topics in Drawing is an intermediate course providing focused exploration of content specific to the discipline. It furthers the development of skills and critical discourse in the field. Majors only. Repeatable up to 15 hours.

**ART 3403C Intermediate Printmaking (3)**
PR: ARH 2050, ARH 2051, ART 2301C, ART 2201C, ART 2203C, ART 3310C, ART 2400C.
This course concentrates on developing intermediate skills in printmaking with particular emphasis on conceptual topics. The course is intended for majors. Repeatable up to 15 hours.

**ART 3461C Selected Topics in Printmaking (3)**
PR: ART 2203C, ARH 2050, ARH 2051, ART 2301C, ART 3310C, ART 2400C, ART 3401C
Selected Topics in Printmaking is an intermediate course providing focused exploration of content specific to the discipline. It furthers the development of skills and critical discourse in the field. Majors only. Repeatable up to 15 hours.

**ART 3465 Digital Printmaking (3)**
PR: ART 3612C or ART 2400C
An investigation of printmaking using the computer as a design interface between electronic and traditional printmaking processes. Repeatable up to 9 hours.

**ART 3513C Selected Topics in Painting (3)**
PR: ART 2203C, ARH 2050, ARH 2051, ART 2301C, ART 3310C, ART 2500C, ART 3530C.
Selected Topics in Painting is an intermediate course providing focused exploration of content specific to the discipline. It furthers the development of skills and critical discourse in the field. Majors only. Repeatable up to 15 hours.

**ART 3530C Intermediate Painting (3)**
PR: ART 2201C, ART 2203C, ART 2301C, ART 2500C, ART 3310C, ARH 2050, ARH 2051
An extension of the skills and concepts introduced in Beginning Painting with an emphasis on individual experimentation and the development of advanced critical and technical skills in the discipline. Repeatable up to 15 hours.

**ART 3610C Digital Modeling (3)**

### For Current Course Inventory, see [https://www.systemacademics.usf.edu/course-inventory/](https://www.systemacademics.usf.edu/course-inventory/)
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(AS OF MARCH 1, 2019)

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<tr>
<td>ART 3612C</td>
<td>Beginning Video, Animation and Digital Arts (3)</td>
<td>PR: ART 3612C</td>
<td>An introductory exploration of the use of video, animation, and digital art as media for making contemporary art. Emphasis is on all levels of production, concept development, and the history and theory of media, moving image, sound, and animation.</td>
</tr>
<tr>
<td>ART 3613C</td>
<td>Live Action Filmmaking (3)</td>
<td>PR: ART 3612C</td>
<td>Students develop a comprehensive understanding of Independent Cinema by producing short film projects. Topics include scriptwriting, professional production tools and practices, and exhibition. Non-repeatable for majors and non-majors with prerequisite.</td>
</tr>
<tr>
<td>ART 3616C</td>
<td>Computer Animation (3)</td>
<td>PR: ART 3612C</td>
<td>Hands-on exploration of issues, principles, and practices involved in the creation of 2D animation. Traditional methods are combined with animation and imaging software. Focus is on individual creative growth.</td>
</tr>
<tr>
<td>ART 3635</td>
<td>Selected Topics in Video, Animation &amp; Digital Arts (3)</td>
<td>PR: ART 2201C, ART 2203C, ART 2301C, ART 3310C, ART 3612C, ART 3613C, ARH 2050, ARH 2051</td>
<td>Selected Topics in VADA is an intermediate course providing focused exploration on content specific to the discipline. It furthers the development of skills and critical discourse in the field. Repeatable up to 15 hours.</td>
</tr>
<tr>
<td>ART 3640</td>
<td>The Art of Video Games (3)</td>
<td>PR: ART 2201C, ART 2203C, ART 2301C, ART 3310C, ART 3612C, ART 3613C, ARH 2050, ARH 2051</td>
<td>The Art of Video Games investigates the emerging role that fine art plays within the video game medium. Students research connections between contemporary art practice and the commercial video game industry and create their own video game.</td>
</tr>
<tr>
<td>ART 3709C</td>
<td>Intermediate Sculpture (3)</td>
<td>PR: ART 2201C, ART 2203C, ART 2301C, ART 2701C, ART 3310C, ARH 2050, ARH 2051</td>
<td>This course expands upon the principles and processes introduced in Beginning Sculpture, developing a higher level of technical competence and critical sophistication. Repeatable up to 15 hours.</td>
</tr>
<tr>
<td>ART 3712C</td>
<td>Multiples, Molds, and Bronzecasting (3)</td>
<td>PR: ART 2701C and ART 3709C</td>
<td>Continued studies and projects in sculpture with an emphasis on the nature of multiples explored through advanced mold making and bronzecasting. This course may not be repeated for credit. The conceptual implications of the multiple will be taught through reading, lecture, discussion and demonstration.</td>
</tr>
<tr>
<td>ART 3735</td>
<td>Selected Topics in Sculpture (3)</td>
<td>PR: ART 2203C, ARH 2050, ARH 2051, ART 2301C, ART 3310C, ART 2701C, ARH 2050, ARH 2051</td>
<td>Selected Topics in Sculpture is an intermediate course providing focused exploration of content specific to the discipline. It furthers the development of skills and critical discourse in the field. Repeatable up to 15 hours.</td>
</tr>
<tr>
<td>ART 3761C</td>
<td>Intermediate Ceramics (3)</td>
<td>PR: ART 2201C, ART 2203C, ART 2301C, ART 2750C, ART 3310C, ARH 2050, ARH 2051</td>
<td>Intermediate problems in ceramics and emphasis on the exploration of methods and media and the development of individual concepts. Repeatable up to 15 hours.</td>
</tr>
<tr>
<td>ART 3781C</td>
<td>Selected Topics in Ceramics (3)</td>
<td>PR: ART 2203C, ARH 2050, ARH 2051, ART 2301C, ART 3310C, ART 2750C, ART 3761C</td>
<td>Selected Topics in Ceramics is an intermediate course providing focused exploration of content specific to the discipline. It furthers the development of skills and critical discourse in the field. Majors only. Repeatable up to 15 hours.</td>
</tr>
<tr>
<td>ART 3843C</td>
<td>Site, Installation, and Performance (3)</td>
<td>PR: ART 2701C and ART 3709C</td>
<td>Continued studies and projects in sculpture with an emphasis on site-specific sculpture, installation and performance. A critical and cultural awareness of contemporary issues and media in sculpture will be developed through studio projects assigned readings, discussions, critiques and demonstrations. The course may not be repeated for credit.</td>
</tr>
<tr>
<td>ART 3939</td>
<td>RealWorld (3)</td>
<td>PR: ART 3618</td>
<td>Offers studio students the opportunity to analyze their experiences as art majors and explore options available to visual artists upon completion of their degree.</td>
</tr>
<tr>
<td>ART 4320C</td>
<td>Advanced Drawing (3)</td>
<td>PR: ART 3939, ARH 4450, ARH 4475C</td>
<td>Continued projects in drawing.</td>
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<tr>
<td>ART 4402C</td>
<td>Advanced Printmaking (3)</td>
<td>ART 3939, ARH 4450, ARH 4475C</td>
<td>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.</td>
</tr>
<tr>
<td>ART 4520C</td>
<td>Advanced Painting (3)</td>
<td>ART 3939, ARH 4450, ARH 4475C, Continued projects in painting.</td>
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</tr>
<tr>
<td>ART 4614C</td>
<td>Advanced Video, Animation and Digital Arts (3)</td>
<td>ART 3939, ARH 4450, ARH 4475C</td>
<td>Advanced exploration of issues and practices in the creation of experimental computer art. Continues an interdisciplinary approach to video, animation, 3D modeling and electronic arts with a focus on individual and group projects.</td>
</tr>
<tr>
<td>ART 4634C</td>
<td>Visual Design for the Internet (3)</td>
<td>ART 3939, ARH 4450, ARH 4475C</td>
<td>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.</td>
</tr>
<tr>
<td>ART 4642C</td>
<td>Digital Fabrications for Artists (3)</td>
<td>ART 3939, ARH 4450, ARH 4475C</td>
<td>Study and use of digital imaging and modeling software (CAD, CAM) for creation of physical artworks using CNC (digital fabrications) equipment; Grounded in contemporary and historical practices.</td>
</tr>
<tr>
<td>ART 4710C</td>
<td>Advanced Sculpture (3)</td>
<td>ART 3939, ARH 4450, ARH 4475C</td>
<td>Continued problems in sculpture. Repeatable.</td>
</tr>
<tr>
<td>ART 4782C</td>
<td>Advanced Ceramics (3)</td>
<td>ART 3939, ARH 4450, ARH 4475C</td>
<td>Continued problems in ceramics.</td>
</tr>
<tr>
<td>ART 4806</td>
<td>Theme Studio (3)</td>
<td>ART 3939, ARH 4450, ARH 4475C</td>
<td>PR: All preparation courses plus course in Studio Workshop I.</td>
</tr>
<tr>
<td>ART 4814</td>
<td>Paris Art Studio (3)</td>
<td>ART 3939, ARH 4450, ARH 4475C</td>
<td>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.</td>
</tr>
<tr>
<td>ART 4900</td>
<td>Directed Reading (1-4)</td>
<td>ART 3939, ARH 4450, ARH 4475C</td>
<td>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.</td>
</tr>
<tr>
<td>ART 4905</td>
<td>Directed Study (1-4)</td>
<td>ART 3939, ARH 4450, ARH 4475C</td>
<td>Independent studies in the various areas of Visual Arts. Course of study and credits must be assigned prior to registration. Repeatable.</td>
</tr>
<tr>
<td>ART 4925</td>
<td>Media Workshop: Design Production (3)</td>
<td>ART 3939, ARH 4450, ARH 4475C</td>
<td>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.</td>
</tr>
<tr>
<td>ART 4930</td>
<td>Selected Topics In Art (1-3)</td>
<td>PR: ART 3939, ARH 4450, ARH 4475C, Continued in Art studio painting.</td>
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</tr>
<tr>
<td>ART 4940</td>
<td>Extended Studies (1-4)</td>
<td>ART 3939, ARH 4450, ARH 4475C</td>
<td>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.</td>
</tr>
<tr>
<td>ART 4970C</td>
<td>Senior Thesis (4)</td>
<td>ART 3939, ARH 4450, ARH 4475C</td>
<td>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.</td>
</tr>
<tr>
<td>ART 5390C</td>
<td>Drawing (4)</td>
<td>ART 3939, ARH 4450, ARH 4475C</td>
<td>Advanced problems in various drawing techniques. Emphasis on individual creative expression. Repeatable.</td>
</tr>
<tr>
<td>ART 5448C</td>
<td>Intaglio (4)</td>
<td>ART 3939, ARH 4450, ARH 4475C</td>
<td>Investigations into more complex intaglio processes including photoengraving and color printing procedures. Emphasis on personal conceptual development in graphic media.</td>
</tr>
<tr>
<td>ART 5580C</td>
<td>Painting (4)</td>
<td>ART 3939, ARH 4450, ARH 4475C</td>
<td>Research in painting</td>
</tr>
<tr>
<td>ART 5740C</td>
<td>Sculpture (4)</td>
<td>ART 3939, ARH 4450, ARH 4475C</td>
<td>Advanced problems in the various techniques of sculpture. Emphasis on individual creative expression. Repeatable.</td>
</tr>
<tr>
<td>ART 5790C</td>
<td>Ceramics (4)</td>
<td>ART 3939, ARH 4450, ARH 4475C</td>
<td>Advanced problems in the various ceramic techniques, including throwing and glaze calculation. Repeatable.</td>
</tr>
</tbody>
</table>

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For Current Course Inventory, see [https://www.systemacademics.usf.edu/course-inventory/](https://www.systemacademics.usf.edu/course-inventory/).
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Course Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASH 2270</td>
<td>Southeast Asian History (3)</td>
<td>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.</td>
</tr>
<tr>
<td>ASH 3404</td>
<td>Modern China (3)</td>
<td>Political, economic, and social history of China from the time of the first major Western contacts (17th-18th Centuries) through the consolidation of socialism in the late 1950's, and the Great Leap Forward.</td>
</tr>
<tr>
<td>ASL 2140C</td>
<td>Basic American Sign Language (4)</td>
<td>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.</td>
</tr>
<tr>
<td>ASL 2150C</td>
<td>Intermediate American Sign Language (4)</td>
<td>A continuation of the basic course which expands the student's signing skills and introduces American Sign Language (ASL) idioms. Provides a greater opportunity for skill development in ASL structure and idiomatic usage. One hour of laboratory course work is included.</td>
</tr>
<tr>
<td>ASL 3324</td>
<td>Advanced ASL Discourse (3)</td>
<td>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.</td>
</tr>
<tr>
<td>ASL 3514</td>
<td>Deaf Culture (3)</td>
<td>This is an introduction to Deaf culture, the emergence of the Deaf community as a linguistic and cultural group, and the history of American Sign Language. Students will study cultural norms, values, and rules of social behavior of the Deaf community.</td>
</tr>
<tr>
<td>ASL 4161C</td>
<td>Advanced American Sign Language (3)</td>
<td>A continuation of the study of American Sign Language (ASL) at the advanced skill level. Added emphasis on idioms, body language, and facial expression as an integral part of ASL. An hour of laboratory course work is included.</td>
</tr>
<tr>
<td>ASL 4201C</td>
<td>American Sign Language 4 (3)</td>
<td>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.</td>
</tr>
<tr>
<td>ASL 4202</td>
<td>American Sign Language 5 (3)</td>
<td>This course is a continuation of the study of American Sign Language (ASL) at an advanced level. Emphasis on skill development of the language and grammar, including spontaneous discussions, formal debates on current topics, and rehearsed presentations.</td>
</tr>
<tr>
<td>ASL 4301C</td>
<td>Structure of Sign Language (3)</td>
<td>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.</td>
</tr>
<tr>
<td>ASL 4405</td>
<td>Sign Language Codes (3)</td>
<td>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.</td>
</tr>
<tr>
<td>ASL 4435</td>
<td>Fundamentals of Fingerspelling (2)</td>
<td>A concentrated study of technique in fingerspelling emphasizing clarity and rhythm in expression as well as receptive understanding.</td>
</tr>
<tr>
<td>ASL 4515</td>
<td>Leadership, Advocacy and Issues in Deaf Studies (3)</td>
<td>This course introduces the student to current issues and topics in the political and advocacy arenas of the American Deaf Community, including Federal Laws and regulations impacting Deaf and Hard of Hearing children and adults.</td>
</tr>
<tr>
<td>ASL 4602</td>
<td>Methods of Teaching American Sign Language (3)</td>
<td>This course introduces students to current theories in curriculum design for teaching American Sign Language (ASL). Instructional methods/materials in second language acquisition and the teaching of ASL included as well.</td>
</tr>
</tbody>
</table>

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ASL 4700 ASL Literature (3)
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 (3)
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 (3)
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 (3)
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 3201 East Asian Cinema (3)
This survey course focuses primarily on recent masterpieces from Japan, mainland China, Hong Kong, Taiwan, and South Korea. We will look at directors, studios, genres, and film movements that leave a lasting mark on film history.

ASN 4414 Introduction to East Asian Cultures (3)
This course introduces major texts that have contributed to the cultural foundations of Chinese, Japanese and Korean civilizations. We will examine the transformation of East Asian civilizations and their critical importance in the contemporary world.

AST 2002 Descriptive Astronomy (3)
CANP, SGEN, SMEL, SMNS
An introductory and overview of astronomy course. It is designed to introduce a broad range of topics in astronomy that will be discussed in greater detail in more advanced classes.

AST 2004 Stellar Astronomy and Cosmology (3)
CANP
AST2004 is an introduction and overview of the Stellar astronomy and Cosmology. It is designed to complement AST2003 to give a comprehensive overview of the science of Astronomy.

AST 3033 Contemporary Thinking in Astronomy (3)
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)
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)
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 (1-3)
Course content will depend upon the interest of the faculty member and student demand.

ATR 1000 Introduction to Athletic Training (3)
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)
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)
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)
PR: ATR 3213C, ATR 3102C.
Foundational topics in athletic training including anatomy review as it relates to diagnosis and treatment of athletic injuries. Other topic areas to include pharmacology, environmental issues and other current topics in athletic training. AT Majors only.
ATR 3132 Kinesiology and Pathomechanics (3)
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)
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)
The study and practice of techniques used when assessing athletic injuries to the upper extremity, head and spine.

ATR 3213C Lower Extremity Assessment (3)
The study and practice of techniques used when assessing injuries to the lower extremity, hip, pelvis, low back and gait.

ATR 3512 Athletic Training Administration and Policy (3)
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)
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 3812L Clinical Experience in Athletic Training I (3)
PR: ATR 3822L
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)
PR: ATR 3102C
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)
PR: ATR 3212C and ATR 3213C
Advanced techniques in athletic training including orthopedic assessment, casting and bracing and imaging techniques.

ATR 4302C Therapeutic Modalities (3)
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)
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)
PR: ATR 3212C and ATR 3213C
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 (3)
PR: ATR 4432, 6ACT, 6ACT, WRIN
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)
PR: ATR 3822L
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.
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<tr>
<th>COURSE DESCRIPTIONS</th>
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<td>UNIVERSITY OF SOUTH FLORIDA 2019-20 UNDERGRADUATE CATALOG</td>
</tr>
</tbody>
</table>

| ATR 4842L Clinical Experience in Athletic Training IV (3) |
| PR: ATR 4832L |
| 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) |
| S/U Only. Specialized independent study determined by the student's needs and interests. Repeatable 1 time. |

| ATR 5105C Athletic Training Techniques (3) |
| Overview course including basic components of the athletic training profession including the prevention, recognition and evaluation and immediate care of athletic injuries. |

| ATR 5125 Anatomical Basis of Clinical Practice in Sports Medicine (3) |
| By way of laboratory prossection of cadavers, this class will provide an opportunity for students to gain an in-depth understanding of human anatomy. This course examines anatomy of the extremities, back, thorax, abdomen, pelvis and perineum. |

| ATR 5217C Physical Examination I (4) |
| The study and practice of skills and techniques essential for the evaluation of orthopaedic injuries. Students will learn to formulate an impression of the injury/condition in order to provide the basis for an initial treatment plan and medical referral. |

| ATR 5218C Physical Examination II (4) |
| The study and practice of skills and techniques essential for the evaluation of orthopaedic injuries. Students will learn to formulate an impression of the injury/condition in order to provide the basis for an initial treatment plan and medical referral. |

| ATR 5306C Therapeutic Interventions I (4) |
| Theoretical and clinical bases for the use of therapeutic modalities, pharmacology in the rehabilitation setting, including basic physics, physiological effects, indications, contraindications, and applications of therapeutic modalities in rehab. |

| ATR 5307C Therapeutic Interventions II (4) |
| Theory and application methods of comprehensive therapeutic treatment and rehabilitation programs for injuries commonly sustained by the physically active. |

| ATR 5308C Therapeutic Interventions III (1) |
| This course will provide an overview of manual therapy techniques, including myofacial release, joint mobilization, and traction as they are incorporated into a therapeutic rehabilitation program. |

| ATR 5319 Rehabilitation Considerations for Children (3) |
| 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 5346C Health and Wellness Promotion Across the Lifespan I (3) |
| Integrates physiological, psychological, and social understanding of humans in relationship to physical activity as a lifelong pursuit. Includes physical fitness, nutrition, stress reduction, socialization, and individual differences in human behavior. |

| ATR 5347C Health and Wellness Promotion Across the Lifespan II (1) |
| Techniques in conducting health fitness tests and exercise prescription including cardiorespiratory fitness, flexibility, weight control and nutrition as it relates to a healthy lifestyle. |

| ATR 5348C Health and Wellness Promotion Across the Lifespan III (1) |
| This course will introduce concepts of neuromuscular system training, specifically addressing sport specific strength training, exercise selection, and physiological needs analysis. |

| ATR 5435 Medical Conditions (3) |
| Pathology, physical examination, referral and treatment related to non-orthopedic conditions in the active population. Specific diagnostic tests and physical examination procedures will also be addressed. |

| ATR 5508 Contemporary Issues in Athletic Training (3) |
| 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. |

For Current Course Inventory, see [https://www.systemacademics.usf.edu/course-inventory/](https://www.systemacademics.usf.edu/course-inventory/)
### ATR 5515 Administration of Injury Prevention Programs (3)
Discusses the development and implementation of injury prevention programs for youth sports. Issues such as research, budgeting, marketing, and measuring effectiveness are identified.

### ATR 5534 Documentation in Athletic Training (1)
CR: ATR 3202
Documentation in Athletic Training is designed to prepare athletic training students with an introduction to the foundation of appropriate terminology, documentation, and communication methods as they relate athletic training and sports medicine.

### ATR 5605 Youth Injury Epidemiology (3)
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.

### ATR 5612 Evidence Based Medicine in Athletic Training (2)
This class will introduce the concept of evidence-based medicine and provide the student with information on how evidence-based medicine can affect the clinical practice of athletic training and enhance the care given to patients.

### ATR 5815 Clinical Experience in Athletic Training I (1-3)
Performance of basic athletic training skills under the supervision of a clinical instructor at various sites. Students develop competence in introductory athletic training skills. Focus on equipment intensive sports. A weekly seminar also required.

### ATR 5825 Clinical Experience in Athletic Training II (1-3)
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 is also required.

### ATR 5835C Clinical Practicum in Athletic Training (1-3)
PR: ATR 5815 with a minimum grade of C, ATR 5825 with a minimum grade of C
Performance of mid-level athletic training skills under the supervision of a preceptor at various sites. Students develop competence in mid-level and advanced athletic training skills.

### BCH 3053 General Biochemistry (3)
PR: CHM 2210 and BSC 2010
This course is a one-semester, introductory course in Biochemistry. This course is open to all majors and strongly recommended for Biomedical Science majors. This course is not repeatable for credit.

### BCH 4033 Advanced Biochemistry I (3)
PR: CHM 2211 and BSC 2010
Introduction to the chemistry and intermediary metabolism of biologically important substances.

### BCH 4034 Advanced Biochemistry II (3)
PR: BCH 4033 with a minimum grade of C
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)
PR: Either CHM 2211, CHM 2211L, and CHM 3400 or CHM 4410
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)
A course in which first year graduate students rotate through selected professorâ€™s laboratories to learn techniques, become familiar with ongoing research in the Department and facilitate the selection of a mentor.

### BME 3032 Biomedical Transport Process (3)
PR: EGN 3343 with a minimum grade of C, EGN 3433 with a minimum grade of C or MAP 2302 with a minimum grade of C
Introduce principles of momentum, mass and heat transport. Mathematical modeling of transport in one dimension and obtain solutions for fluxes and profiles. To utilize them to obtain engineering quantities.

### BME 3053 Computer Programming for Biomedical Engineers (3)
PR: EGN 3433 with a minimum grade of C or MAP 2302 with a minimum grade of C
Basic programming skills in MATLAB. Use of computer methods to solve biomedical engineering problems. Solution of linear and nonlinear algebraic and differential equations that arise in biomedical engineering. Optimization methods.
# COURSE DESCRIPTIONS

(AS OF MARCH 1, 2019)

**BME 3312 Molecular and Cellular Engineering (3)**
- **PR:** CHM 2210 with a minimum grade of C, CHM 2210L with a minimum grade of C
- 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.

**BME 4056C Biomedical Engineering Lab I (2)**
- **PR:** BME 4503 with a minimum grade of C, BME 4508 with a minimum grade of C
- Design, implementation and analysis of biomedical experiments, including biomechanics, tissue mechanics, fluid transport, cardiovascular hemodynamics and materials for artificial organs and implants.

**BME 4057C Biomedical Engineering Lab II (2)**
- **PR:** BME 4503 with a minimum grade of C, BME 4508 with a minimum grade of C
- Design, implementation and analysis of biomedical experiments, including bio-signal data acquisition, processing and analysis, and medical image processing and interpretation.

**BME 4100 Biomedical Engineering (3)**
- **CR:** Calculus 1
- **CPR:** Chemistry 1
- An overview of biomedical engineering, including material and energy balances on human subjects, biomechanics, biomaterials, cellular and tissue engineering, bioemical imaging, neuroengineering, cardiovascular systems, engineering ethics and product development.

**BME 4332 Cell and Tissue Engineering (3)**
- **PR:** EGN 3343 and EGN 3365 or EMA 4003
- Engineering principles and molecular cell biology are applied to develop a fundamental understanding of property-function relationships in cells and tissues and exploit them in the rational design of tissue replacements.

**BME 4406 Engineering of Biological Systems (3)**
- **PR:** CHM 2210
- 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 4409 Engineering Physiology (3)**
- **PR:** EGN 3433 with a minimum grade of C or MAP 2302 with a minimum grade of C, PHY 2049 with a minimum grade of C or PHY 2061 with a minimum grade of C or Physics C:Elcty/Mgmtsm with a minimum score of 4, BSC 2010 with a minimum grade of C
- General physiology of nerve, muscle, heart, and lung tissue, along with quantitative models of physiological processes at cell, tissue, and/or system level.

**BME 4440 Introduction to Bioastronautics (3)**
- **PR:** EGN 3343
- This course will discuss the space environment, impacts of microgravity on human physiology, countermeasures, human factors in spacesuit and spacecraft design, astronaut training, life support systems, mission planning, and private space flight.

**BME 4503 Biomedical Instrumentation (3)**
- **CPR:** EGN 3373 with a minimum grade of C
- Engineering and medical bases of application, measurement and processing of signals to and from living systems. Biomedical transducers for measurements of movement, biopotentials, pressure, flow, concentrations, and temperature are discussed.

**BME 4508 Biomedical Signals and Systems Analysis (3)**
- **PR:** EGN 3343 with a minimum grade of C or MAP 2302 with a minimum grade of C, BME 3053 with a minimum grade of C, PHY 2049 with a minimum grade of C or Physics C:Elcty/Mgmtsm with a minimum score of 4
- Application of analytical methods and computational modelling to the analysis of biochemical, bioelectrical, and biomechanical processes.

**BME 4571 Nanomedicine (3)**
- This course will provide a basic knowledge of the principles, technology and applications of nanotechnology in medicine with special emphasis on recombinant DNA technology, protein engineering, drug delivery, biomaterials, MEMs & tissue engineering.

**BME 4882 Biomedical Engineering Design I (3)**
- **CPR:** BME 4056C with a minimum grade of C or BME 4057C with a minimum grade of C
- Teams work with a client in the development of projects that incorporate various aspects of Biomedical Engineering. Emphasizes formal engineering design principles; engineering ethics, risk analysis, safety in design and FDA regulations are reviewed.

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COURSE DESCRIPTIONS
(AS OF MARCH 1, 2019)

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BME 4883 Biomedical Engineering Design II (3)
PR: BME 4882 with a minimum grade of C
Teams work with a client in the development of projects that incorporate various aspects of Biomedical Engineering. Emphasizes formal engineering design principles; engineering ethics, risk analysis, safety in design and FDA regulations are reviewed.

BME 4931 Selected Topics in Biomedical Engineering (1-3)
Selected topics in biomedical engineering, which can include biomechanics, biomedical instrumentation and sensors, tissue and cellular engineering, and clinical engineering and health systems.

BME 5040 Pharmaceutical Engineering (2)
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 5105 Introduction to Biomedical Engineering (3)
PR: CHM 2045, and MAC 2311 or MAC 2281 or MAC 2241
This course is designed to introduce students from engineering and other disciplines to a range of topics in biomedical engineering. The course will cover engineering tools and techniques applied to medicine and biology.

BME 5320 Theory and Design of Bioprocesses (3)
Introduction to biotechnology, including applied microbiology, enzyme technology, biomass production, bioreactor design, and transport processes in biosystems.

BME 5400 Directed Research in Bioengineering (1-3)
Directed research in an area of biomedical engineering or biotechnology.

BME 5910 Directed Research in Bioengineering (1-3)
Directed research in an area of biomedical engineering or biotechnology. May be taken by non-engineering students with CI. Repeatable as subjects vary.

BMS 5015 Clinical Diagnosis and Reasoning (var.)
This course aims to provide the student with the opportunity to "think like a physician." It will provide the venue to integrate clinical diagnosis/reasoning strategies with complementary aspects of clinical problem solving/physical diagnosis/evidence based medicine.

BOT 3152C Field Botany (3)
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)
PR: BSC 2010, BSC 2010L, BSC 2011, BSC 2011L & CHM 2045, CHM 2046 & MAC 1105 or higher-level MAC course or STA 2023
Introduction to morphology, physiology and evolution of vascular plants, integrating form and function to understand diversity. Lecture and Laboratory.

BOT 3850 Medical Botany (3)
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)
PR: BOT 3373C and PCB 3043
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)
PR: BOT 3373C or MCB 3020 and CHM 2210 and MAC 1105 or higher-level MAC course or STA 2023.
CPR: 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 4506 Plant Ecology (3)
PR: PCB 3043
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)
PR: BOT 3373C.
Study of the uses of plants by man for food, chemicals, fibers, and medicines.
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<tr>
<th>Course Code</th>
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<tr>
<td>BOT 4851</td>
<td>Plants and Human Health (3)</td>
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<tr>
<td></td>
<td>PR: BSC 2010 / C- OR BSC 2011 / C-</td>
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<td>This course is a study about the natural history and nature of plant chemical constituents, and about the historic, present, and future roles of plants in human health.</td>
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<tr>
<td>BSC 1005</td>
<td>Biological Principles for Non Majors (3)</td>
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<td>CANL, SGEN, SMEL, SMNS, SPNS</td>
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<td></td>
<td>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.</td>
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<tr>
<td>BSC 1020</td>
<td>The Biology of Humans (3)</td>
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<td>CANL</td>
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<td>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.</td>
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<tr>
<td>BSC 2010</td>
<td>Cellular Processes (3)</td>
</tr>
<tr>
<td></td>
<td>CR: BSC 2010L.</td>
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<td></td>
<td>CANL, SGEN, SMEL, SMNS, SPNS</td>
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<tr>
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<td>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.</td>
</tr>
<tr>
<td>BSC 2011</td>
<td>Biodiversity (3)</td>
</tr>
<tr>
<td></td>
<td>CR: BSC 2011L.</td>
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<tr>
<td></td>
<td>CANL, SMEL, SMNS</td>
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<td></td>
<td>Biodiversity is an analysis of biological systems at the organismal level: evolution, speciation, history of life, and ecology.</td>
</tr>
<tr>
<td>BSC 2010L</td>
<td>Cellular Processes Laboratory (1)</td>
</tr>
<tr>
<td></td>
<td>Laboratory portion of Biology I Cellular Processes relating to cellular and subcellular structure and function. Mitosis, meiosis, and Mendelian genetics will be stressed.</td>
</tr>
<tr>
<td>BSC 2011L</td>
<td>Biodiversity Laboratory (1)</td>
</tr>
<tr>
<td></td>
<td>Laboratory portion of Biology II Diversity relating to organismal structure and function. Microscopy, as well as, plant and animal development will be stressed.</td>
</tr>
<tr>
<td>BSC 2025</td>
<td>Food: Personal and Global Perspectives (3)</td>
</tr>
<tr>
<td></td>
<td>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.</td>
</tr>
<tr>
<td>BSC 2035</td>
<td>Sex and Today’s World (3)</td>
</tr>
<tr>
<td></td>
<td>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.</td>
</tr>
<tr>
<td>BSC 2050</td>
<td>Environment (3)</td>
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<td>CANL</td>
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<tr>
<td></td>
<td>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 water, air and land pollution.</td>
</tr>
<tr>
<td>BSC 2085</td>
<td>Anatomy and Physiology I for Health Professionals (3)</td>
</tr>
<tr>
<td></td>
<td>CR: BSC 2085L.</td>
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<td>CANL, SGEN, SPNS</td>
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<tr>
<td></td>
<td>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.</td>
</tr>
<tr>
<td>BSC 2085L</td>
<td>Anatomy and Physiology Lab I for Nursing and other Healthcare Professionals (1)</td>
</tr>
<tr>
<td></td>
<td>CR: BSC 2085.</td>
</tr>
<tr>
<td></td>
<td>Laboratory exercises and virtual dissections linked to the basic content of Anatomy &amp; Physiology I for Health Professionals.</td>
</tr>
<tr>
<td>BSC 2086</td>
<td>Anatomy and Physiology II for Nursing and other Healthcare Professionals (3)</td>
</tr>
<tr>
<td></td>
<td>PR: BSC 2085 and BSC 2085L.</td>
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<tr>
<td></td>
<td>CR: BSC 2086L.</td>
</tr>
<tr>
<td></td>
<td>CANL</td>
</tr>
<tr>
<td></td>
<td>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.</td>
</tr>
<tr>
<td>BSC 2086L</td>
<td>Anatomy and Physiology Lab II for Nursing and other Healthcare Professionals (1)</td>
</tr>
<tr>
<td></td>
<td>PR: BSC 2085 and BSC 2085L.</td>
</tr>
<tr>
<td></td>
<td>CR: BSC 2086.</td>
</tr>
<tr>
<td></td>
<td>Laboratory exercises and virtual dissections linked to the basic content of Anatomy &amp; Physiology II for Health Professionals.</td>
</tr>
<tr>
<td>BSC 2093C</td>
<td>Human Anatomy and Physiology I (4)</td>
</tr>
<tr>
<td></td>
<td>Basic biochemistry, cell structure and function, tissues, anatomical terminology, anatomy and physiology of the integumentary, skeletal, muscular, and nervous systems. Lecture and Laboratory.</td>
</tr>
</tbody>
</table>
### COURSE DESCRIPTIONS

**UNIVERSITY OF SOUTH FLORIDA 2019-20 UNDERGRADUATE CATALOG**

#### BSC 2094C Human Anatomy and Physiology II (4)
- **PR: BSC 2010, BSC 2010L, BSC 2011, BSC 2011L, BSC 2093C, and CHM 2045.**
- Anatomy and physiology of the autonomic nervous, endocrine, circulatory, lymphatic, immune, respiratory, digestive, excretory, and reproductive systems. Lecture and Laboratory.

#### BSC 2932 Selected Topics in Biology (1-3)
- The course content will depend on student demand and instructor’s interest.

#### BSC 2933 Honors Seminar II: Philosophy And Ethics Of Science (3)
- **PR: BSC 2011, BSC 2011L, BSC 2932, CHM 2045.**
- Enrollment is limited to department of biology honors students. Introduction to the nature of science. Historical perspectives, modes of reasoning, science vs. Pseudoscience, science as an intellectual process, ethics, and resolving dilemmas.

#### BSC 2934 Honors Seminar III: Scientific Approaches (3)
- **PR: BSC 2933**
- The course will begin to familiarize students with the process of conducting scientific research.

#### BSC 2938 Honors Seminar I (1)
- **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 (3)
- **PR: BSC 1005 or BSC 1020 and BSC 2085 or BSC 2093C.**
- 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)
- **PR: BSC 2010, BSC 2010L, BSC 2011, BSC 2011L & CHM 2045, CHM 2046 & MAC 1105 or higher-level MAC course, or STA 2023.**
- 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 3813 Life Science Fundamentals for Teachers (4)
- **PR: Six hours of science to include three hours of physical science and three hours of life science.**
- This course is designed to further develop science teachers’ understanding of the life sciences commonly found in 6-9 school curricula, with a focus on effective research based life sciences pedagogy.

#### BSC 4052 Conservation Biology (3)
- **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 (3)
- **EMWP, SMCD**
- Study of biological, economic, ethical, legal, political and social issues relating to current environmental problems.

#### BSC 4313C Advanced Marine Biology (4)
- **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 4333 Ecology Of Aquatic Vascular Plants (3)
- **PR: BSC 2010/C- OR BSC 2011/C- OR BSC 3015C/C-.**
- A study of aquatic vascular plants, biological adaptations to aquatic environments, factors influencing community composition, how they influence and are influenced by their habitats; includes a survey of key vascular plant in a wide range of communities.

#### BSC 4434 Bioinformatics (3)
- **PR: PCB 3023 with a minimum grade of C-, PCB 3063 with a minimum grade of C-, MAC 2241 with a minimum grade of C- or MAC 2281 with a minimum grade of C- or MAC 2311 with a minimum grade of C- or Calculus AB with a minimum score of 3 or Calculus AB Subscore with a minimum score of 3 or Calculus BC with a minimum score of 3**
- 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.

For Current Course Inventory, see [https://www.systemacademics.usf.edu/course-inventory/](https://www.systemacademics.usf.edu/course-inventory/)
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>BSC 4444</td>
<td>Genomics (3)</td>
<td>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.</td>
</tr>
<tr>
<td>BSC 4444L</td>
<td>Genomics Laboratory (1)</td>
<td>Laboratory exercises linked to the Genomics lecture course.</td>
</tr>
<tr>
<td>BSC 4452</td>
<td>Computational Biology (3)</td>
<td>PR: CHM 2046 with a minimum grade of C-, MAC 2242 with a minimum grade of C- or MAC 2282 with a minimum grade of C- or MAC 2312 with a minimum grade of C-, STA 2023 with a minimum grade of C-, PHY 2049 with a minimum grade of C- or PHY 2054 with a minimum grade of C- This course provides a general overview of the data-analytical and theoretical methods, mathematical modeling and computational simulation techniques available to study biological and social systems.</td>
</tr>
<tr>
<td>BSC 4905</td>
<td>Independent Study (1-3)</td>
<td>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.</td>
</tr>
<tr>
<td>BSC 4910</td>
<td>Undergraduate Research (1-4)</td>
<td>PR: CHM 2210 and MAC 1105 or higher MAC course or STA 2023 CPR: PCB 3023 or PCB 3043 or PCB 3063 or PCB 3712 and CHM 2111. S/U only. Junior standing and 3.0 GPA required. Individual investigation with faculty supervision. Written contract by Department is necessary prior to registration.</td>
</tr>
<tr>
<td>BSC 4932</td>
<td>Honors Seminar IV (1)</td>
<td>PR: BSC 2934 and BSC 4910 or MCB 4910; CPR: 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.</td>
</tr>
<tr>
<td>BSC 4933</td>
<td>Selected Topics in Biology (1-4)</td>
<td>The course content will depend on student demand and instructor's interest.</td>
</tr>
<tr>
<td>BSC 4935</td>
<td>Seminar in Cell and Molecular Biology (1)</td>
<td>PR: PCB 3023, PCB 3063, MCB 3410 This seminar course provides opportunity for students to attend and critique departmental seminars and to read, interpret, and critique research papers from the primary literature. These will be done orally and in written assignments.</td>
</tr>
<tr>
<td>BSC 4937</td>
<td>Seminar in Marine Biology (2)</td>
<td>PR: BSC 3312C and CHM 2210 and MAC 1105 or higher-level MAC course or STA 2023. CPR: 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.</td>
</tr>
<tr>
<td>BSC 4940</td>
<td>Biology Internship (3)</td>
<td>PR: BSC 2010/C- OR BSC 2011/C- A course to oversee and guide students internship experience. Internship will be coordinated with a mentor external to the course. Students will meet to discuss internship experiences and progress, and present results.</td>
</tr>
<tr>
<td>BSC 4970</td>
<td>Biology Honors Thesis (1-3)</td>
<td>PR: BSC 2934 and either BSC 4931 or BSC 4932. A thesis based on independent research carried out by the student.</td>
</tr>
<tr>
<td>BSC 5425</td>
<td>Genetic Engineering and Recombinant DNA Technology (3)</td>
<td>PR: PCB3023, PCB3063, 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.</td>
</tr>
<tr>
<td>BUL 3320</td>
<td>Law And Business I (3)</td>
<td>PR: PCB3023, PCB3063, 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.</td>
</tr>
<tr>
<td>BUL 5332</td>
<td>Law and the Accountant (3)</td>
<td>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.</td>
</tr>
<tr>
<td>BUL 5333</td>
<td>Law and the Accountant (3)</td>
<td>PR: BUL 3320 A comprehensive study of commercial law as it affects the practice of accounting.</td>
</tr>
</tbody>
</table>
**BUL 5842 Risk Management and Legal Compliance (3)**  
This course is designed for non-accounting students who need to understand, monitor and control risks. The content of this course spans corporate governance, risk strategy and legal/regulatory compliance including analysis of significant laws/ regulations.

**CAP 4034 Computer Animation Fundamentals (3)**  
PR: COP 3331  
CPR: 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)**  
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)**  
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)**  
PR: COP 4530.  
Introduction to topics such as image formation, segmentation, feature extraction, matching, shape recovery, texture analysis, object recognition, and dynamic scene analysis.

**CAP 4628 Affective Computing (3)**  
PR: COP 4530 with a minimum grade of C  
The study of systems that can recognize, interpret, process, and simulate human affect. Topics may include physiology of emotion, lie detection, wearable devices, music, gaming, and ethical concerns associated with affective computing.

**CAP 4662 Introduction to Robotics (3)**  
PR: COP 4530, EGN 4450  
An introduction to the fundamentals of robotics. Students will learn the fundamentals of robotics including kinematics, inverse kinematics, Jacobian, velocity, configuration space, motion planning, and path planning algorithms.

**CAP 4800 Systems Simulation (3)**  
PR: COP 3331  
CPR: COP 4530  
An introduction to discrete-event simulation for performance modeling of computer systems. Topics include performance metrics, random number generation, workload generation, queueing theory, simulation languages, model design, and output analysis.

**CAP 5400 Digital Image Processing (3)**  
PR: COP 4530.  
Image formation, sources of image degradation, image enhancement techniques, edge detection operators and threshold selection, low-level processing algorithms for vision, image data compression.

**CAP 5625 Introduction to Artificial Intelligence (3)**  
PR: COP 4530.  
Basic concepts, tools, and techniques used to produce and study intelligent behavior. Organizing knowledge, exploiting constraints, searching spaces, understanding natural languages, and problem solving strategies.

**CAP 5627 Affective Computing (3)**  
The study of systems that can express, recognize and respond to human affects by analyzing faces, gestures, body pose, and biological data that includes brain, heart, and respiration signals.

**CAP 5771 Data Mining (3)**  
PR: Undergraduate statistics.  
An introductory course to mining information from data. Scalable supervised and unsupervised machine learning methods are discussed. Methods to visualize and extract heuristic rules from large databases with minimal supervision is discussed.

**CBH 4004 Comparative Psychology (3)**  
PR: PSY 3213 with a grade of C or better  
The study of the evolution of behavior, similarities, and differences in capacities for environmental adjustment and for behavioral organization among important types of living beings.

**CCE 4031 Construction Management (3)**  
PR: EGN 3613C.  
Fundamentals of construction management. Topics include: general definitions, organizational roles, types of contracts, analysis of labor and equipment, cost estimating, contractor cash flow analysis, planning and scheduling, project control, construction administration, quality and safety management, and use of computer software in construction management.
CCE 5035 Construction Management & Planning (3)
PR: EGN 3613C.
Fundamentals of construction management. Topics include: general definitions, organizational roles, types of contracts, analysis of labor and equipment, cost estimating, contractor cash flow analysis, planning and scheduling, project control, construction administration, quality and safety management, and use of computer software in construction management.

CCJ 3014 Crime and Justice in America (3)
CASB
This course is a non-technical survey of the nature of crime in the United States and the ways in which our society seeks to deal with juvenile and adult offenders and victims of crime.

CCJ 3024 Survey of the Criminal Justice System (3)
An introduction to the structure and operation of law enforcement, prosecution, the courts, and corrections. Also includes brief coverage of major reported crimes.

CCJ 3117 Theories of Criminal Behavior (3)
PR: CCJ 3024
Provides a basic understanding of the complex factors related to crime, with concentration on principal theoretical approaches to the explanation of crime.

CCJ 3621 Patterns of Criminal Behavior (3)
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.

CCJ 3701 Research Methods in Criminal Justice I (3)
PR: 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 criminal justice.

CCJ 4224 Miscarriages of Justice (3)
To provide a critical examination of the current functioning of the American criminal justice system and to discuss how procedures used by police, prosecutors, defense attorneys, judges, and corrections agents potentially produce miscarriages of justice.

CCJ 4361 Death Penalty (3)
The primary purpose of this class is to provide a critical examination of capital punishment in the United States. It will also delve into the key dimensions of the death penalty debate and justifications for the death penalty and arguments for abolition.

CCJ 4450 Criminal Justice Administration (3)
PR: CJE 4114 or CJT 4100
This course is designed to provide an in-depth examination of both the practical and theoretical aspects of the administration of criminal justice agencies. The major focus will be on law enforcement and correctional agencies.

CCJ 4604 Abnormal Behavior and Criminality (3)
PR: CCJ 3117
A systematic introduction to the relationship between mental illness and criminality, with focus on psychiatric labeling of deviant behavior and its implications for the handling of the criminal offender.

CCJ 4613 Forensic Psychology (3)
An upper-level course designed to provide students with an overview of the interdisciplinary field of psychology and law. The course explores how the disciplines of psychology and law can benefit from an exchange of ideas, and thus improve both fields.

CCJ 4651 Drugs and Crime (3)
The objective of this course is to provide the student a comprehensive understanding of the dynamics of drug use in American society.

CCJ 4662 Race and Crime (3)
The course focuses on race (racial bias, racial inferiority, cultural norms and adaptations) and social class (structural deficiencies, economic deprivation, economic exploitation, social capital) as they relate to one another, crime and life in general.

CCJ 4681 Domestic Violence (3)
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)
This course is designed to cultivate a psychological, criminological, and legal understanding of sex crimes and sex offenders. This course will provide an overview of current theoretical and clinical issues related to sexual offenders and sexual offenses.
CCJ 4700 Statistical Research Methods in Criminal Justice II (3)
PR: CCJ 3024 or CCJ 3117
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)
PR: CCJ 3024, CCJ 3117, CCJ 3621
(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)
PR: CCJ 3024, CCJ 3117, CCJ 3621
(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 4933 Selected Topics in Criminology (3)
PR: CCJ 3024, CCJ 3117, CCJ 3621
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 (3)
PR: a grade of C or better (a grade of C- is not acceptable) in CCJ 3701, 6ACT, 6ACT, CPST, EMMW
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 4940 Internship for Criminal Justice Majors (3)
PR: CCJ 3024, CCJ 3117, CCJ 3621.
The internship will consist of placement with one or more of the agencies comprising the criminal justice system. This course will enable the students to gain meaningful field experience related to their future careers. The three-hour block of credit will require a minimum of ten hours of work per week during a fall or spring term, fifteen hours per week in summer, within the host agencies in addition to any written work or reading assignments. See requirements for the B.A. degree in Criminology for the number of hours required.

CCJ 4970 Honors Thesis (3)
PR: CCJ 4934 (honors section), CCJ 4910
The student, under the direction of a faculty member, will formalize, conduct, analyze, and report in writing a research project in the Department of Criminology. The course is not repeatable. Majors only.

CDA 3101 Computer Organization for Information Technology (3)
PR: CGS 3303
Elements of a computer are discussed in terms of the physical and conceptual design of memory, processors, busses, and I/O. Applications to IT are emphasized.

CDA 3103 Computer Organization (3)
PR: COP 2510 and PHY 2049
Introduction to computer hardware, logic elements and Boolean algebra, computer arithmetic, the central processing unit, assembly language programming, input/output, and memory.
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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Prerequisites</th>
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<tbody>
<tr>
<td>CDA 3201</td>
<td>Computer Logic and Design (3)</td>
<td>PR: CDA 3103 (grade of B or better) and COP 3514 (grade of B or better)</td>
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<td>CR: CDA 3201L</td>
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<td></td>
<td>CSE and EE majors. Others by special permission. Advanced coverage of Boolean</td>
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<td>Algebra, introduction to minimization of combinational logic circuits, analysis and synthesis of sequential circuits, testing of logic circuits and programmable logic devices.</td>
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<tr>
<td>CDA 3201L</td>
<td>Computer Logic and Design Lab (1)</td>
<td>CR: CDA 3201</td>
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<td>Laboratory component of the Computer Logic and Design class.</td>
</tr>
<tr>
<td>CDA 4203</td>
<td>Computer System Design (3)</td>
<td>PR: CDA 3201, CDA 3201L</td>
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<td>Design Methods, Top-Down design, Building Blocks, Instruction and addressing models, minicomputer design, interfacing.</td>
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<tr>
<td>CDA 4203L</td>
<td>Computer System Design Lab (1)</td>
<td>CR: CDA 4203</td>
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<td>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.</td>
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<tr>
<td>CDA 4205</td>
<td>Computer Architecture (3)</td>
<td>PR: CDA 3201, CDA 3201L</td>
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<td>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.</td>
</tr>
<tr>
<td>CDA 4213</td>
<td>CMOS-VLSI Design (3)</td>
<td>PR: CDA 3201, CDA 3201L</td>
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<tr>
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<td>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.</td>
</tr>
<tr>
<td>CDA 4213L</td>
<td>CMOS-VLSI Design Lab (1)</td>
<td>PR: CDA 3201, CDA 3201L</td>
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<td>CR: CDA 4213</td>
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<td>Scalable CMOS layout design, circuit extraction, transistor-level and lay-out level simulation, SPICE parameters/modeling, transistor sizing, standard and macro-cell based layout, static/dynamic CMOS, combinational/sequential block layout, memory I/O design.</td>
</tr>
<tr>
<td>CDA 4253</td>
<td>Field Programmable Gate Array System Design and Analysis (3)</td>
<td>PR: CDA 3201, CDA 3201L</td>
</tr>
<tr>
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<td>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.</td>
</tr>
<tr>
<td>CDA 4621</td>
<td>Control of Mobile Robots (3)</td>
<td>PR: CDA 3201</td>
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<td>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.</td>
</tr>
<tr>
<td>CDA 4622</td>
<td>Introduction to Mobile Robotics for Information Technology (3)</td>
<td>PR: COP 2512</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Introduction to mobile robot systems covering aspects that include robot architectures, sensors, actuators, control and behavior. Students will learn and experience mobile robot systems using either Physical Robots or Simulated Robots.</td>
</tr>
<tr>
<td>CDA 4623</td>
<td>Advanced Mobile Robotics for Information Technology (3)</td>
<td>PR: CDA 4622</td>
</tr>
<tr>
<td></td>
<td></td>
<td>The course gives an overview of advanced mobile robotic systems covering aspects that include path planning and collision avoidance. Additional themes may vary such as collaboration and competition in multiple Physical or Simulated robots.</td>
</tr>
<tr>
<td>CDA 5416</td>
<td>Computer System Verification (3)</td>
<td>PR: CDA 3201, COT 3100, COT 4400, COP 4530</td>
</tr>
<tr>
<td></td>
<td></td>
<td>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.</td>
</tr>
<tr>
<td>CEG 4011</td>
<td>Geotechnical Engineering I (3)</td>
<td>PR: EGN 3353, EGN 3331</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Fundamental and experimental concepts in soil mechanics with emphasis on soil properties, soil moisture, soil structure, and shearing strength.</td>
</tr>
<tr>
<td>CEG 4011L</td>
<td>Geotechnical Engineering Laboratory (1)</td>
<td>CPR: CEG 4011 with a minimum grade of C- Demonstrates and experiments verifying theoretical bases of Geotechnical Engineering.</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Prerequisites</td>
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</tr>
<tr>
<td>CEG 4012</td>
<td>Geotechnical Engineering II (3)</td>
<td>PR: CEG 4011</td>
</tr>
<tr>
<td>CEG 4850</td>
<td>Capstone Geotechnical/Transportation Design (3)</td>
<td>PR: CEG 4011, TTE 4004. CR: CEG 4012, CGN 4851, TTE 4005</td>
</tr>
<tr>
<td>CEG 5115</td>
<td>Foundation Engineering (3)</td>
<td>PR: CEG 4011</td>
</tr>
<tr>
<td>CEG 5205</td>
<td>Laboratory Testing for Geotechnical Engineers (3)</td>
<td>PR: CEG 4011</td>
</tr>
<tr>
<td>CEN 3722</td>
<td>Human Computer Interfaces for Information Technology (3)</td>
<td>PR: COP 3515</td>
</tr>
<tr>
<td>CEN 4020</td>
<td>Software Engineering (3)</td>
<td>PR: COP 4530</td>
</tr>
<tr>
<td>CEN 4031</td>
<td>Software Engineering Concepts for Information Technology (3)</td>
<td>PR: COP 4538</td>
</tr>
<tr>
<td>CEN 4072</td>
<td>Software Testing (3)</td>
<td>PR: COP 2510, COP 4530.</td>
</tr>
<tr>
<td>CEN 4360</td>
<td>Mobile Applications Development for IT (3)</td>
<td>PR: COP 3515</td>
</tr>
<tr>
<td>CEN 4721</td>
<td>User Interface Design (3)</td>
<td>PR: COP 4530</td>
</tr>
<tr>
<td>CES 3102</td>
<td>Structures I (3)</td>
<td>PR: EGN 3331</td>
</tr>
<tr>
<td>CES 4561</td>
<td>Computer Aided Structural Design (3)</td>
<td>PR: CES 4141</td>
</tr>
<tr>
<td>CES 4605</td>
<td>Concepts of Steel Design (3)</td>
<td>PR: CES 3102</td>
</tr>
<tr>
<td>CES 4702</td>
<td>Concepts of Concrete Design (3)</td>
<td>PR: CES 3102</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
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<tr>
<td>CES 4704</td>
<td>Capstone Structural/Materials Design</td>
<td>3</td>
</tr>
<tr>
<td>CES 4750</td>
<td>Capstone Structural/Geotechnical/ Material Design</td>
<td>3</td>
</tr>
<tr>
<td>CES 4820C</td>
<td>Timber and Masonry Design</td>
<td>3</td>
</tr>
<tr>
<td>CES 5105C</td>
<td>Advanced Mechanics of Materials I</td>
<td>3</td>
</tr>
<tr>
<td>CES 5209</td>
<td>Structural Dynamics</td>
<td>3</td>
</tr>
<tr>
<td>CES 5715C</td>
<td>Prestressed Concrete</td>
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<tr>
<td>CGN 3021L</td>
<td>Civil Engineering Laboratory</td>
<td>3</td>
</tr>
<tr>
<td>CGN 4122</td>
<td>Professional and Ethical Issues in Engineering</td>
<td>3</td>
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<tr>
<td>CGN 4851</td>
<td>Concrete Construction Materials</td>
<td>3</td>
</tr>
<tr>
<td>CGN 4905</td>
<td>Independent Study</td>
<td>1-5</td>
</tr>
<tr>
<td>CGN 4933</td>
<td>Special Topics in Civil and Environmental Engineering</td>
<td>1-3</td>
</tr>
<tr>
<td>CGS 1540</td>
<td>Introduction to Databases for Information Technology</td>
<td>3</td>
</tr>
<tr>
<td>CGS 2034</td>
<td>Computers and Impact on Society</td>
<td>3</td>
</tr>
<tr>
<td>CGS 2060</td>
<td>Introduction to Computers and Computer Programming</td>
<td>3</td>
</tr>
<tr>
<td>CGS 2062</td>
<td>Computers And Society</td>
<td>3</td>
</tr>
<tr>
<td>CGS 2094</td>
<td>CyberEthics</td>
<td>3</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Prerequisites</td>
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<tr>
<td>CGS 2100</td>
<td>Computers in Business (3)</td>
<td>6ACT, TGEI</td>
</tr>
<tr>
<td>CGS 2935</td>
<td>Special Topics in General Computer Studies (1-3)</td>
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<tr>
<td>CGS 3303</td>
<td>IT Concepts (3)</td>
<td>CGS 1540</td>
</tr>
<tr>
<td>CGS 3343</td>
<td>Health Information Systems for Information Technology (3)</td>
<td>CGS 1540</td>
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<tr>
<td>CGS 3845</td>
<td>Electronic Commerce (3)</td>
<td>COP 3515</td>
</tr>
<tr>
<td>CGS 3853</td>
<td>Web Systems for IT (3)</td>
<td>CEN 3722</td>
</tr>
<tr>
<td>CHI 1955</td>
<td>Overseas Study in China (1-6)</td>
<td>CHI 1121</td>
</tr>
<tr>
<td>CHI 2220</td>
<td>Modern Chinese III (4)</td>
<td>CHI 1121</td>
</tr>
<tr>
<td>CHI 2221</td>
<td>Modern Chinese IV (4)</td>
<td>CHI 2220</td>
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<tr>
<td>CHI 3241</td>
<td>Advanced Chinese Conversation I (3)</td>
<td>CHI 2221</td>
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<tr>
<td>CHI 3242</td>
<td>Advanced Chinese Conversation II (3)</td>
<td>CHI 3241</td>
</tr>
<tr>
<td>CHI 4443</td>
<td>Networking in China and America (3)</td>
<td>CHI 2221</td>
</tr>
<tr>
<td>CHI 4905</td>
<td>Directed Study (1-5)</td>
<td>CHI 2221</td>
</tr>
<tr>
<td>CHI 4930</td>
<td>Special Topics (1-3)</td>
<td></td>
</tr>
<tr>
<td>CHM 2023</td>
<td>Chemistry for Today (3)</td>
<td></td>
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</tbody>
</table>
CHM 2032 Introduction to General, Organic, and Biochemistry I (3)
CANP
Fundamental concepts of general, organic, and biological chemistry.

CHM 2045 General Chemistry I (3)
PR: 570 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.
CANP, SGEN, SMEL, SMNS, SPNS
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)
CPR: 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 (3)
PR: CHS 2440 or CHM 2045 with a minimum grade of C
CANP, SMEL, SMNS
Principles and applications of chemistry including solutions, chemical thermodynamics, kinetics, equilibria, aqueous chemistry, electrochemistry, and nuclear chemistry.

CHM 2046L General Chemistry II Laboratory (1)
PR: CHM 2045L or CHS 2440L with a minimum grade of C
CPR: CHM 2046 with a minimum grade of C
Laboratory portion of General Chemistry II. Continuation of chemistry laboratory.

CHM 2210 Organic Chemistry I (3)
PR: CHM 2046, CHM 2046L with a C or better.
Fundamental principles of organic chemistry. Lecture.

CHM 2210L Organic Chemistry Laboratory I (2)
CPR: CHM 2200 or CHM 2210.

CHM 2211 Organic Chemistry II (3)
PR: CHM 2210 with a C or better.
Continuation of organic chemistry.

CHM 2211L Organic Chemistry Laboratory II (2)
PR: CHM 2210L
CR: CHM 2211.
SMLE
Continuation of organic chemistry laboratory.

CHM 3120C Elementary Analytical Chemistry (4)
PR: CHM 2046, CHM 2046L.
Fundamentals of gravimetric, volumetric, spectrophotometric analysis. Lec.-lab.

CHM 3415C Physical Chemistry Methods (4)
PR: CHM 2046 and MAC 2282 or MAC 2312 or MAC 2242
This class will familiarize chemistry majors with the analytical and numerical math of physical chemistry and the use of specialized software for symbolic and numerical math and visualization.

CHM 3610 Intermediate Inorganic Chemistry (3)
PR: CHM 2046, CHM 2046L.
Fundamental principles of inorganic chemistry including atomic structure, bonding theories and structural consequences, transition metal chemistry and illustrative laboratory work.

CHM 3610L Intermediate Inorganic Chemistry Laboratory (1)
PR: Two semesters of general chemistry lecture and lab
CR: CHM 3610.
Illustrative laboratory work concerning the fundamental principles of inorganic chemistry including atomic structure, bonding, transition metal chemistry, structural consequences and spectroscopic methods.

CHM 3941 Peer Leading in Chemistry (3)
CPR: CHM 2046
The purpose of this course is to prepare students for the role of peer leader. Peer leaders work with students enrolled in chemistry courses on a regular basis. The course involves coverage of chemistry concepts and training in pedagogical techniques.

CHM 4060 Use of Chemical Literature (1)
PR: CHM 2045, CHM 2046, CHM 2210, CHM 2211.
Discussions and assignments using abstracts, bibliographies, indices, encyclopedias, journals, patent files, electronic databases, and other information sources to obtain chemical and technical material and including written and oral presentations. Career information and opportunities also discussed.

CHM 4070 Historical Perspectives in Chemistry (3)
PR: One year of college chemistry
6ACT, 6ACT
A study in depth of the historical and philosophical aspects of outstanding chemical discoveries and theories. Lec.-dis.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHM 4130C</td>
<td>Methods of Instrument Analysis (4)</td>
<td>PR: CHM 3120C, CHM 2211, CHM 2211L, CHM 4060, CHM 4410.</td>
</tr>
<tr>
<td></td>
<td></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)</td>
<td>PR: CHM 4130C.</td>
</tr>
<tr>
<td></td>
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<td>Continuation of CHM 4130C. Lec.-lab.</td>
</tr>
<tr>
<td>CHM 4230</td>
<td>Spectroscopic Analysis of Organic Compounds (3)</td>
<td>PR: CHM 2211.</td>
</tr>
<tr>
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<td>The objective is to provide the student with a thorough understanding of the theory and use of spectroscopic techniques (MS, IR, UV-vis, and NMR,) and their use in identification of organic compounds from the spectroscopic data from techniques discussed.</td>
</tr>
<tr>
<td>CHM 4274</td>
<td>Introduction to Drug Discovery (3)</td>
<td>PR: BSC 2010 and CHM 2211.</td>
</tr>
<tr>
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<td>This course explores the entire drug discovery process, from initial target identification and hit generation through lead optimization and clinical trials to FDA approval. Case studies will be used to illustrate the process.</td>
</tr>
<tr>
<td>CHM 4292</td>
<td>Introduction to Medicinal Chemistry (3)</td>
<td>PR: CHM 2211 and BCH 3023.</td>
</tr>
<tr>
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<td>This course in medicinal chemistry is designed to acquaint students with modern applications of chemical techniques and methods to the discovery, design and synthesis of molecules that interact with biomolecular targets and thereby serve as new drugs.</td>
</tr>
<tr>
<td>CHM 4300</td>
<td>Biomolecules I (3)</td>
<td>PR: CHM 2211.</td>
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<tr>
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<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 4307</td>
<td>BioOrganic Chemistry (3)</td>
<td>PR: BCH 3053 or BCH 4033.</td>
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<tr>
<td></td>
<td></td>
<td>Discussion of current research directions in the field of chemical biology.</td>
</tr>
<tr>
<td>CHM 4410</td>
<td>Physical Chemistry I (4)</td>
<td>PR: CHM 2046, MAC 2242 or MAC 2282 or MAC 2312, and PHY 2054 or PHY 2049.</td>
</tr>
<tr>
<td></td>
<td></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)</td>
<td>PR: CHM 4410.</td>
</tr>
<tr>
<td></td>
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<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)</td>
<td>PR: CHM 2046, MAC 2242 or MAC 2282 or MAC 2312, and PHY 2054 or PHY 2049.</td>
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<tr>
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<td></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)</td>
<td>PR: CHM 2046, CHM 4410, MAC 2242 or MAC 2282 or MAC 2312, and PHY 2054 or PHY 2049.</td>
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<tr>
<td></td>
<td></td>
<td>This course will cover spectroscopy, bonding and kinetics with emphasis placed on biological molecules and biochemical reactions.</td>
</tr>
<tr>
<td>CHM 4418</td>
<td>Functional Porous Materials (3)</td>
<td>PR: CHM 3610 with a minimum grade of C</td>
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<tr>
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<td>The design and application of porous materials including porous organic polymers, porous carbon materials, zeolites, and metal-organic frameworks are presented.</td>
</tr>
<tr>
<td>CHM 4455</td>
<td>Chemistry of High Polymers (3)</td>
<td>PR: CHM 2210.</td>
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<tr>
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<td>The purpose of this course is to prepare students for scientific careers in polymer science and technology or in related fields. The course involves coverage of chemistry concepts involving synthesis and characterization of polymeric materials.</td>
</tr>
<tr>
<td>CHM 4611</td>
<td>Advanced Inorganic Chemistry (3)</td>
<td>PR: CHM 4410, CHM 2046, MAC 2242 or MAC 2282 or MAC 2312 and PHY 2054 or PHY 2049.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>An advanced descriptive and theoretical treatment of inorganic compounds.</td>
</tr>
<tr>
<td>CHM 4905</td>
<td>Independent Study (1-3)</td>
<td>PR: CHM 2211.</td>
</tr>
<tr>
<td></td>
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<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>
</tr>
<tr>
<td>CHM 4932</td>
<td>Selected Topics in Chemistry (1-3)</td>
<td>PR: CHM 2211.</td>
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<tr>
<td></td>
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<td>The course content will depend on the interest of faculty members and student demand.</td>
</tr>
<tr>
<td>CHM 4970</td>
<td>Undergraduate Research (1-3)</td>
<td>PR: CHM 2211, CHM 2211L, or equivalent</td>
</tr>
<tr>
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<td>This course will extend organic chemistry beyond the undergraduate level and will emphasize concepts of stereochemistry and reaction mechanisms.</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Prerequisites</td>
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<tr>
<td>CHM 5226</td>
<td>Intermediate Organic Chemistry II (3)</td>
<td>PR: CHM 5225</td>
</tr>
<tr>
<td>CHM 5452</td>
<td>Polymer Chemistry (3)</td>
<td>PR: Either CHM 2211, CHM 2211L, and CHM 3400 or CHM 4410</td>
</tr>
<tr>
<td>CHM 5621</td>
<td>Principles of Inorganic Chemistry (3)</td>
<td>PR: CHM 4411, CHM 4610</td>
</tr>
<tr>
<td>CHM 5931</td>
<td>Selected Topics in Chemistry (1-3)</td>
<td></td>
</tr>
<tr>
<td>CHS 2440</td>
<td>General Chemistry for Engineers (3)</td>
<td>PR: 570 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.</td>
</tr>
<tr>
<td>CHS 2440L</td>
<td>General Chemistry for Engineers Lab (1)</td>
<td>CR: CHS 2440.</td>
</tr>
<tr>
<td>CHS 4300</td>
<td>Fundamentals of Clinical Chemistry (3)</td>
<td>PR: BCH 3023.</td>
</tr>
<tr>
<td>CHS 4301L</td>
<td>Clinical Laboratory (2)</td>
<td>PR: BCH 3023 and CHM 3120C</td>
</tr>
<tr>
<td>CHT 3110</td>
<td>Traditional Chinese Literature in Translation (3)</td>
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<tr>
<td>CHT 3124</td>
<td>Modern Chinese Literature in Translation (3)</td>
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<tr>
<td>CHT 3500</td>
<td>Introduction to Chinese Culture (3)</td>
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<tr>
<td>CHT 3512</td>
<td>Contemporary Chinese Language and Society (3)</td>
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<tr>
<td>CIS 3213</td>
<td>Foundations of Cybersecurity (3)</td>
<td>PR: COP 2512.</td>
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<tr>
<td>CIS 3360</td>
<td>Principles of Information Security (3)</td>
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<tr>
<td>CIS 3362</td>
<td>Cryptography and Information Security (3)</td>
<td>PR: MAD 2104.</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
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<tr>
<td>CIS 3363</td>
<td>Information Technology Systems Security</td>
<td>3</td>
</tr>
<tr>
<td>CIS 3367</td>
<td>Architecting Operating System Security</td>
<td>3</td>
</tr>
<tr>
<td>CIS 3433</td>
<td>System Integration and Architecture for IT</td>
<td>3</td>
</tr>
<tr>
<td>CIS 3932</td>
<td>Special Topics for Information Technology</td>
<td>1-3</td>
</tr>
<tr>
<td>CIS 4083</td>
<td>Cloud Computing for IT</td>
<td>3</td>
</tr>
<tr>
<td>CIS 4200</td>
<td>Penetration Testing for IT</td>
<td>3</td>
</tr>
<tr>
<td>CIS 4219</td>
<td>Human Aspects of Cybersecurity</td>
<td>3</td>
</tr>
<tr>
<td>CIS 4250</td>
<td>Ethical Issues and Professional Conduct</td>
<td>3</td>
</tr>
<tr>
<td>CIS 4253</td>
<td>Ethics for Information Technology</td>
<td>3</td>
</tr>
<tr>
<td>CIS 4361</td>
<td>Information Assurance and Security Management for IT</td>
<td>3</td>
</tr>
<tr>
<td>CIS 4364</td>
<td>Cryptology and Information Security</td>
<td>3</td>
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<tr>
<td>CIS 4365</td>
<td>Computer Security Policies and Disaster Preparedness</td>
<td>3</td>
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<tr>
<td>CIS 4412</td>
<td>Resource Management for IT</td>
<td>3</td>
</tr>
<tr>
<td>CIS 4510</td>
<td>IT Project Management</td>
<td>3</td>
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</tbody>
</table>
### COURSE DESCRIPTIONS

#### UNIVERSITY OF SOUTH FLORIDA 2019-20 UNDERGRADUATE CATALOG

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Prerequisites</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIS 4900</td>
<td>Independent Study in Computer Science (1-5)</td>
<td>PR: COP 4530 and CDA 3201</td>
<td>Specialized independent study determined by the needs and interests of the student.</td>
</tr>
<tr>
<td>CIS 4910</td>
<td>Computer Science and Engineering Project (2-5)</td>
<td>PR: COP 4530</td>
<td>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.</td>
</tr>
<tr>
<td>CIS 4915</td>
<td>Supervised Research in Computer Science (1-5)</td>
<td>PR: COP 4530 and CDA 3201</td>
<td>Supervised research determined by the needs and interests of the student.</td>
</tr>
<tr>
<td>CIS 4930</td>
<td>Special Topics in Computer Science I (1-3)</td>
<td>PR: COP 4530 and CDA 3201</td>
<td>Special topics in computer science and computer engineering.</td>
</tr>
<tr>
<td>CIS 4932</td>
<td>Special Topics for Information Technology (1-3)</td>
<td></td>
<td>Topics to be chosen by students and instructor permitting newly developing subdisciplinary special interests to be explored.</td>
</tr>
<tr>
<td>CIS 4935</td>
<td>Senior Project in Information Technology (4)</td>
<td>6ACM, CPST, CST, SMCC</td>
<td>This course is the capstone project for IT majors. Students are required to design, implement, and deliver a complete IT solution to a problem leveraging discipline-specific, critical thinking, and communication skills acquired in this major.</td>
</tr>
<tr>
<td>CIS 4940</td>
<td>Industry Internship (0-6)</td>
<td>PR: COP 4530 and CDA 3201</td>
<td>Individual study as practical computer science and/or computer engineering work under industrial supervision with a faculty approved outline and end-of-semester report.</td>
</tr>
<tr>
<td>CIS 4947</td>
<td>Industry Internship for IT (3)</td>
<td></td>
<td>Practical information technology work under industrial supervision with a faculty-approved outline and end-of-semester report.</td>
</tr>
<tr>
<td>CJC 4166</td>
<td>Alternatives to Incarceration (3)</td>
<td>PR: CCJ 3024 or CCJ 3117</td>
<td>This course explores a variety of alternatives to imprisoning the offender, including probation, parole, diversion, and other community-based intervention and treatment approaches.</td>
</tr>
<tr>
<td>CJE 3444</td>
<td>Crime Prevention (3)</td>
<td>PR: CCJ 3024, CCJ 3117. 6ACP, 6ACT, 6ACT</td>
<td>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.</td>
</tr>
<tr>
<td>CJE 4010</td>
<td>Juvenile Justice System (3)</td>
<td>PR: CCJ 3024 or CCJ 3117</td>
<td>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.</td>
</tr>
<tr>
<td>CJE 4114</td>
<td>American Law Enforcement Systems (3)</td>
<td>PR: CCJ 3024 or CCJ 3117</td>
<td>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.</td>
</tr>
<tr>
<td>CJE 4610</td>
<td>Criminal Investigation (3)</td>
<td>PR: CCJ 3024 or CCJ 3117</td>
<td>Covers the major components of criminal investigation, with special attention to the scientific aspects of criminal investigation and the management of major cases.</td>
</tr>
<tr>
<td>CJL 3110</td>
<td>Substantive Criminal Law (3)</td>
<td>PR: CCJ 3024, CCJ 3117</td>
<td>Examines the historical basis of the American criminal law system, the substantive elements of the crime, and court procedures.</td>
</tr>
<tr>
<td>CJL 4115</td>
<td>Environmental Law and Crime (3)</td>
<td>PR: CCJ 3024</td>
<td>The course provides students with an introduction to issues in the area of environmental crime and environmental law.</td>
</tr>
<tr>
<td>CJL 4410</td>
<td>Criminal Rights and Procedures (3)</td>
<td>PR: CCJ 3024</td>
<td>Emphasizes the Constitutional issues and rules that are applied and enforced by the courts while processing criminal cases.</td>
</tr>
</tbody>
</table>

For Current Course Inventory, see [https://www.systemacademics.usf.edu/course-inventory/](https://www.systemacademics.usf.edu/course-inventory/)
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CLA 3103</td>
<td>Daily Life in Ancient Greece (3)</td>
<td>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.</td>
</tr>
<tr>
<td>CLA 3124</td>
<td>Daily Life in Ancient Rome (3)</td>
<td>This course surveys the major social, political, and cultural aspects of the ancient Roman world, topically and chronologically, from 753 B.C.E to 476 CE, through the literary, historical, and artistic records of the Romans.</td>
</tr>
<tr>
<td>CLA 3435</td>
<td>Ancient Globalization: East and West in the Hellenistic World (3)</td>
<td>The military campaigns of Alexander the Great brought the Greek culture into the 'Near' and 'Middle' East, from modern Turkey to India. The course examines the multicultural world that emerged, its effect on Rome, and parallels with modern globalization.</td>
</tr>
<tr>
<td>CLA 3503</td>
<td>Ancient Medicine: Quacks, Doctors, and Magicians (3)</td>
<td>This course will investigate the historical importance of Greek and Roman medicine and cover its main developments from its beginnings around 1000 BCE until the dethronement of Hippocratic/Galenic theories around the 17th c. CE.</td>
</tr>
<tr>
<td>CLA 3930</td>
<td>Selected Topics (3)</td>
<td>An examination of various aspects of Greek and Roman Culture, based on ancient sources, literary and archaeological. Repeatable as topics vary.</td>
</tr>
<tr>
<td>CLA 4501</td>
<td>Women in Antiquity (3)</td>
<td>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.</td>
</tr>
<tr>
<td>CLP 4001</td>
<td>Psychology of Adjustment (3)</td>
<td>Genetic, organic, and learned factors involved in the processes of personal adjustment; applications of mental health principles to everyday living.</td>
</tr>
<tr>
<td>CLP 4134</td>
<td>Abnormal Child Psychology (3)</td>
<td>PR: PSY 3213. This course provides an integration of theory, etiology, research, treatment, and prevention of maladaptive behavior from infancy through adolescence.</td>
</tr>
<tr>
<td>CLP 4143</td>
<td>Abnormal Psychology (3)</td>
<td>PR: PSY 3213 with a grade of C or better. Descriptions, theoretical explanations, research evidence, and treatment of maladaptive behavior.</td>
</tr>
<tr>
<td>CLP 4302</td>
<td>Introduction to Clinical Psychology (3)</td>
<td>PR: PSY 3213, CLP 4143. This course provides an introduction to clinical psychology, including coverage of theories of behavior change and research designs. Evidence-based practices and mental health careers will be covered.</td>
</tr>
<tr>
<td>CLP 4414</td>
<td>Behavior Modification (3)</td>
<td>PR: PSY 3213 with a grade of C or better. Introduction to behavior analysis, and application of learning principles, behavioral measurement, research designs, and interventions in treatment settings.</td>
</tr>
<tr>
<td>CLP 4433</td>
<td>Psychological Tests and Measurement (3)</td>
<td>PR: PSY 3213 with a grade of C or better. Examination of the instruments for intellectual and personality assessment including their applications, development, and potential abuses.</td>
</tr>
<tr>
<td>CLT 2044</td>
<td>Wordpower from Latin and Greek (3)</td>
<td>A course in the Greek and Latin word elements used in science and technology.</td>
</tr>
<tr>
<td>CLT 3040</td>
<td>Scientific and Medical Terminology (3)</td>
<td>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).</td>
</tr>
<tr>
<td>CLT 3103</td>
<td>Epic Battles and Dramatic Reversals in Greek Thought (3)</td>
<td>PR: PSY 3213. 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.</td>
</tr>
<tr>
<td>CLT 3123</td>
<td>Voyages and Metamorphoses in Roman Imagination (3)</td>
<td>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.</td>
</tr>
<tr>
<td>CLT 3370</td>
<td>Gods, Heroes, and Monsters in the Ancient World (3)</td>
<td>CAHU, GCPC. Classical Mythology surveys 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).</td>
</tr>
</tbody>
</table>
CLT 3511 Greece and Rome in World Film (3)  
GCPC  
This course surveys cinematic representations of ancient Greece and Rome to illustrate the imaginative power of film and television to shape modern perceptions of the Greco-Roman past across and between global cultures.

CLT 3521 American Greece, American Rome (3)  
GCPC, GCPC  
This course investigates the intellectual influence of Classical antiquity in the United States from the first colonies to the aftermath of 9/11. Students will contextualize and evaluate Greek and Roman models in American “formal” and “popular” culture.

CNT 4004 Computer Networks I (3)  
PR: COP 3331  
CR: 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.

CNT 4104 Computer Information Networks for Information Technology (3)  
PR: COP 3515  
CR: CNT 4104L  
Presents the design and analysis of computer networks. The emphasis is on application- and Internet-layer protocols. Network interfaces, Internet protocols, wireless networks, routing, and security issues are introduced.

CNT 4104L Computer Information Networks Laboratory for Information Technology (1)  
PR: COP 3515  
CR: CNT 4104  
This lab provides a hands-on introduction to computer networking and the protocols used to coordinate and control communications on them.

CNT 4403 Network Security and Firewalls (3)  
PR: CNT 4104  
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.

CNT 4411 Computing and Network Security (3)  
PR: CNT 4004  
The course is a study of fundamental concepts and principles of computing and network security. The course covers basic security topics, including symmetric and public key cryptography, digital signatures, hash functions, and network security protocols.

CNT 4419 Secure Coding (3)  
PR: COP 4530 with a minimum grade of C-  
Principles and practices for secure computing and writing secure software, including software for performing information management and networking and communications.

CNT 4504 Computer Networks II (3)  
PR: CNT 4004  
CR: COP 4530  
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.

CNT 4603 System Administration and Maintenance for Information Technology (3)  
PR: CNT 4104 with a minimum grade of C-  
Examines the activities related to the selection, installation and management of computer systems. Covers concepts essential to the administration of OS, networks, and services. Covers system documentation, policies and procedures.

COM 2000 Introduction to Communication (3)  
GCPC, GCPC  
Introduction to the roles, contexts, and issues in contemporary human communication. Required of Communication majors.

COM 3014 Communication, Gender and Identity (3)  
SMCD  
Examines the communicative origins and implications of gender roles.

COM 3051 Analyzing Culture and Media (3)  
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. May not be repeated for credit.

COM 3052 Cultural Studies and Communication (3)  
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.

COM 3110 Communication For Business and the Professions (3)  
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.
### COURSE DESCRIPTIONS

**UNIVERSITY OF SOUTH FLORIDA 2019-20 UNDERGRADUATE CATALOG**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>COM 3120</td>
<td>Organizational Communication (3)</td>
<td>A survey of communication concepts which impact upon organizational effectiveness.</td>
</tr>
<tr>
<td>COM 3122</td>
<td>Interview Communication (3)</td>
<td>A study of communication theory relative to persuasive interviewing with an emphasis on career interview situations.</td>
</tr>
<tr>
<td>COM 3413</td>
<td>Communication and Visual Culture (3)</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>
</tr>
<tr>
<td>COM 4016</td>
<td>Public Memory (3)</td>
<td>Exploration of collective memory as public communication. Examines public memory as created and communicated in memorials, museums, mediated history, nostalgia, and story.</td>
</tr>
<tr>
<td>COM 4020</td>
<td>Communicating Illness, Grief, and Loss (3)</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>
</tr>
<tr>
<td>COM 4021</td>
<td>Family Communication and the End of Life (3)</td>
<td>Explores theories and practices of family communication at end-of-life through language, relationships, bioethics, and case analysis techniques.</td>
</tr>
<tr>
<td>COM 4022</td>
<td>Health Communication (3)</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>
</tr>
<tr>
<td>COM 4023</td>
<td>Women and Communication (3)</td>
<td>Examines women's patterns of communication in a variety of contexts. Also offered under Women's Studies.</td>
</tr>
<tr>
<td>COM 4050</td>
<td>Globalization and Democratic Discourse (3)</td>
<td>Examines rhetoric of globalization and democracy from communication perspectives, especially the discourses of war, terrorism, nationalism, and security.</td>
</tr>
<tr>
<td>COM 4104</td>
<td>Communication, Tourism, and Travel (3)</td>
<td>Focuses on cultural, experiential, and performative practices and meanings of travel and tourism as sites of communication inquiry.</td>
</tr>
<tr>
<td>COM 4124</td>
<td>Communication and Organizational Change (3)</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>
</tr>
<tr>
<td>COM 4128</td>
<td>Integrated Organizational Communication (3)</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>
</tr>
<tr>
<td>COM 4151</td>
<td>Communication and Working Life in Cont Orgs (3)</td>
<td>Explores workers and organizations through socialization, self-presentation, technologies, identity issues, and work-family balance.</td>
</tr>
<tr>
<td>COM 4225</td>
<td>Global &amp; Cultural Issues in Health Communication (3)</td>
<td>Explores issues in global health, culture, and communication in health care initiatives.</td>
</tr>
<tr>
<td>COM 4414</td>
<td>Race and Gender in Popular Film and Television (3)</td>
<td>Explores representations of race and gender in contemporary TV and film. Majors only. Non-majors by permit only. May not be repeated for credit.</td>
</tr>
<tr>
<td>COM 4490</td>
<td>Communication and Love (3)</td>
<td>Examines concepts, philosophy, and theories of love in connection with communication skills.</td>
</tr>
<tr>
<td>COM 4530</td>
<td>Influencing Public Opinion (3)</td>
<td>Explores foundational, history, measurement techniques, and persuasive strategies of public opinion research and practice from rhetorical perspectives.</td>
</tr>
<tr>
<td>COM 4702</td>
<td>Communication, Language, and Mental Illness (3)</td>
<td>Explores intersection of mental illness and communication as language, talk-in-interaction, and discourse as social practice.</td>
</tr>
<tr>
<td>COM 4710</td>
<td>Writing Lives (3)</td>
<td>Emphasizes writing stories about our lives and the lives of others as a way to understand, cope with and communicate social experiences.</td>
</tr>
</tbody>
</table>

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### COM 4931 Special Topics in Media Analysis (3)
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)
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 (3)
**PR: COM 2000, SPC 3301, ORI 3004, 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.

### COP 1930 Special Topics for Information Technology (1-3)
Special topics course.

### COP 2270 Programming in C for Engineers (3)
**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)
**PR: MAC 2281 or equivalent.**
An examination of a modern programming language emphasizing programming concepts and design methodology.

### COP 2512 Programming Fundamentals for Information Technology (3)
An introduction to computer programming using a modern high-level language with IT applications. Topics include variables, types, expressions, and assignment, control structures, I/O, functions, and structured decomposition.

### COP 2513 Object Oriented Programming for Information Technology (3)
**PR: COP 2512**
An introduction to object oriented programming emphasizing an objects first approach with applications to IT. Objects, methods, and classes are studied in detail. Students design and implement object-oriented programs to solve IT problems.

### COP 2930 Special Topics for Information Technology (1-3)
Special topics course.

### COP 2931 Special Topics for Information Technology (1-3)
Special topics course.

### COP 3257 JAVA for Experienced Programmers (3)
**PR: COP 3514 or equivalent.**
Program design and development using the JAVA programming language. Comparison of program design in a procedural language (C recommended) versus design in the JAVA language. Application development using advanced programming techniques.

### COP 3311 Object Oriented Software Design (3)
**PR: COP 3514**
**CPR: CDA 3103**
Design of a computer program using an Object-Oriented programming language. Extension of programming knowledge from a procedural language to an object-oriented language. Analysis of program requirements.

### COP 3331 User-Level Introduction to Linux for IT (3)
**PR: COP 2512**
Description Introduction to a modern Linux distribution; installation in a desktop-friendly virtualized environment, users and software packages management, usage of the shell for navigation, and text processing command line tools.

### COP 3514 Program Design (3)
**PR: COP 2510 or comparable introductory programming course**
The class extends students' programming knowledge by systematically considering the concepts involved in program design and creation. Students will also build upon their previous programming experience by learning to use the C programming language in a networked environment.

### COP 3515 Advanced Program Design for Information Technology (3)
**PR: MAD 2104 and (COP 2513 or COP 2250)**
Covers problem solving with an emphasis on the creation of programs to be developed and maintained in a variety of environments from small to large IT organizations. Concepts relating to program efficiency are studied.

### COP 3931 Special Topics for Information Technology (1-3)
Topics to be chosen by students and instructor permitting newly developing subdisciplinary special interests to be explored.

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## COURSE DESCRIPTIONS

(AS OF MARCH 1, 2019)

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<tr>
<th>Course Code</th>
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<tbody>
<tr>
<td>COP 4020</td>
<td>Programming Languages (3)</td>
</tr>
<tr>
<td>PR: COP 4530.</td>
<td></td>
</tr>
<tr>
<td>An introduction to the specification, design, and analysis of programming languages. Topics include syntax, operational semantics, type systems, type safety, lambda calculus, functional programming, polymorphism, side effects, and objects.</td>
<td></td>
</tr>
<tr>
<td>COP 4313</td>
<td>Symbolic Computations in Mathematics (3)</td>
</tr>
<tr>
<td>PR: MAS 3105 and MAP 2302. 6AMT, 6AMT</td>
<td></td>
</tr>
<tr>
<td>Students will write programs to solve problems in various areas of mathematics including calculus and linear algebra with symbolic programming systems such as Maple, Mathematica, or Macsyma.</td>
<td></td>
</tr>
<tr>
<td>COP 4365</td>
<td>Software System Development (3)</td>
</tr>
<tr>
<td>PR: COP 4530.</td>
<td></td>
</tr>
<tr>
<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>
<td></td>
</tr>
<tr>
<td>COP 4530</td>
<td>Data Structures (3)</td>
</tr>
<tr>
<td>PR: COT 3100 and COP 3331 and CDA 3103</td>
<td></td>
</tr>
<tr>
<td>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. Functional programming concepts will be covered.</td>
<td></td>
</tr>
<tr>
<td>COP 4538</td>
<td>Data Structures and Algorithms for Information Technology (3)</td>
</tr>
<tr>
<td>PR: COP 3515</td>
<td></td>
</tr>
<tr>
<td>Formalizes the concepts of algorithm and time complexity. Data structures such as heaps, lists, queues, stacks, and various forms of trees are covered. Students design and analyze algorithms. Numerous classic algorithms are covered.</td>
<td></td>
</tr>
<tr>
<td>COP 4564</td>
<td>Application Maintenance &amp; Debugging for IT (3)</td>
</tr>
<tr>
<td>PR: COP 3515</td>
<td></td>
</tr>
<tr>
<td>Addresses the software-development cycle and code maintenance, as well as software correctness. Various code testing strategies and debugging methods are presented along with tools for software maintenance and debugging.</td>
<td></td>
</tr>
<tr>
<td>COP 4600</td>
<td>Operating Systems (3)</td>
</tr>
<tr>
<td>PR: COP 4530.</td>
<td></td>
</tr>
<tr>
<td>Introduction to systems programming. Design of operating systems. Concurrent processing, synchronization, and storage management policies.</td>
<td></td>
</tr>
<tr>
<td>COP 4610</td>
<td>Operating Systems for Information Technology (3)</td>
</tr>
<tr>
<td>PR: COP 4538</td>
<td></td>
</tr>
<tr>
<td>This course is an introduction to operating systems using an algorithmic approach. Topics include processes, parallelism, memory management, resource allocation, file systems, remote file systems, virtual machines, and virtualization.</td>
<td></td>
</tr>
<tr>
<td>COP 4610L</td>
<td>Operating Systems Laboratory for Information Technology (1)</td>
</tr>
<tr>
<td>PR: EEL 4854</td>
<td></td>
</tr>
<tr>
<td>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)</td>
</tr>
<tr>
<td>PR: COP 4530</td>
<td></td>
</tr>
<tr>
<td>Introduction to techniques for compiling software; lexical, syntactic, and semantic analyses; abstract syntax trees; symbol tables; code generation and optimization.</td>
<td></td>
</tr>
<tr>
<td>COP 4656</td>
<td>Software Development for Mobile Devices (3)</td>
</tr>
<tr>
<td>PR: COP 4530</td>
<td></td>
</tr>
<tr>
<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>
<td></td>
</tr>
<tr>
<td>COP 4703</td>
<td>Database Systems for Information Technology (3)</td>
</tr>
<tr>
<td>CR: COP 4538</td>
<td></td>
</tr>
<tr>
<td>Database management systems are presented, covering relational, CODASYL, network, hierarchical, and object-oriented models. Backups and database server admin are covered. Best practices for information management are covered.</td>
<td></td>
</tr>
<tr>
<td>COP 4710</td>
<td>Database Design (3)</td>
</tr>
</tbody>
</table>
| PR: COP 3331  
CPR: COP 4530 |
| This course covers the fundamentals and applications of database management systems, including data models, relational database design, query languages, and web-based database applications. |
| COP 4814    | Web Services (3) |
| The Web services model, based on the Open Standards of SOAP, WSDL, and UDDI, is studied and applied. |

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COP 4816 XML Applications (3)
This course introduces extensible Markup Language (XML), a technology for exchanging structured information over the Internet, and examines a sampling of its many applications.

COP 4834 Data-Driven Web Sites (3)
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.

COP 4883 Java Programming for Information Technology (3)
PR: COP 4538
This course covers object-oriented programming in Java and Java foundation classes. Topics include classes, inheritance, interfaces, graphical user interfaces (GUIs), event-driven programming, exception handling, and networking.

COP 4900 Independent Study in Information Technology (1-5)
Specialized independent study determined by the needs and interests of the student.

COP 4930 Information Technology Seminar (1-3)
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.

COP 4931 Special Topics for Information Technology (1-3)
Topics to be chosen by students and instructor permitting newly developing subdisciplinary special interests to be explored.

COT 4210 Automata Theory and Formal Languages (3)
PR: COT 3100, COP 4530.
Introduction to the theory and application of various types of computing devices and the languages they recognize.

COT 4400 Analysis of Algorithms (3)
PR: COT 3100, COP 4530.
Design principles and analysis techniques applicable to various classes of computer algorithms frequently used in practice.

COT 4521 Computational Geometry (3)
PR: COP 4530, COT 4400.
Computational geometry is the study of efficient algorithms to solve geometric problems. Topics covered include Polygonal Triangulations, Polygon Partitioning, Convex Hulls, Voronoi Diagrams, Arrangements, Search and Intersection, and Motion Planning.

CPO 2002 Introduction to Comparative Politics (3)
SPSS
Comparison and analysis of representative European and non-Western political systems.

CPO 4034 Politics of the Developing Areas (3)
GCPC, GCPC
An analysis of the ideologies, governmental structures, and political processes of selected nations of the non-Western world.

CPO 4930 Comparative Government and Politics of Select Areas (3)
Studies political systems with common elements. Structure, process, domestic and foreign politics, and regional roles are considered.

CPO 5934 Selected Topics in Comparative Politics (3)
Studies specific substantive areas in Comparative Politics, such as political economy or the politics of specific countries or regions.

CRW 2100 Narration and Description (3)
6ACP, 6ACT, 6ACT
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.

CRW 3111 Form and Technique of Fiction (3)
6ACP, 6ACT, 6ACT
A study of short narrative forms such as the anecdote, tale, character sketch, incident, monologue, epistolary 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.
CRW 3112 Fiction I (3)
PR: CRW 2100 or CRW 3111.
6ACT, 6ACT
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.

CRW 3121 Fiction II (3)
PR: CRW 2100 or CRW 3111, CRW 3112.
6ACT, 6ACT
A fiction workshop which provides individual and peer guidance for the student’s writing and which encourages the development of critical skills.

CRW 3311 Form and Technique of Poetry (3)
An examination of the techniques employed in fixed forms from the couplet through the sonnet to such various forms as the rondeau, ballad, villanelle, sestina, etc. Principles in the narrative, dramatic, and lyric modes are also explored.

CRW 3312 Poetry I (3)
PR: CRW 3311.
An introduction to poetry writing utilizing writing exercises employing poetic language and devices; the exercises progress to the writing of both rhymed and unrhymed metrical and non-metrical forms.

CRW 3321 Poetry II (3)
PR: CRW 3311, CRW 3312.
A poetry workshop which provides individual and peer guidance for the student’s writing and which encourages the development of critical skills.

CRW 4120 Fiction III (3)
PR: CRW 2100 or CRW 3111, CRW 3112, CRW 3121.
An advanced fiction workshop in which works may be carried over from CRW 3121 or longer forms such as the novel may be begun.

CRW 4320 Poetry III (3)
PR: CRW 3311, CRW 3312, CRW 3321.
An advanced poetry workshop in which students are expected to create works exhibiting a firm knowledge of the principles explored in the preceding courses.

CRW 4930 Selected Topics in Creative Writing (1-3)
PR: 12 hours of CRW courses
The focus of the course will be governed by student demand and instructor interest. Topics to be covered may include writing the literary essay, writing in mixed genres, and utilizing popular conventions in serious works. May be taken twice for credit with different topics.

CTS 4337 Linux Workstations System Administration for IT (3)
PR: COP 3353
Students learn to install, configure, tune, and administer a Linux system. Administration focuses on managing user accounts, file systems, and processes. System commands are presented and students learn to write basic scripts.

CTS 4805 Web Development Tools (3)
This course builds on web design concepts and extends them to build and maintain complete Web Sites using the current de facto industry-standard integrated web site development environment/applications.

CWR 4202 Hydraulics (3)
PR: EGN 3353.
Fundamental and applied aspects of pipe flow, free surface flow, and unsteady flow for hydraulic systems.

CWR 4540 Water Resources Engineering I (3)
PR: CWR 4202.
A study of the engineering principles involved in sustaining and managing the quantity and quality of water available for human activities with particular emphasis on surface water and ground water hydrology.

CWR 4541 Water Resources Engineering II (3)
PR: EGN 3353, CWR 4202.
The course is intended to be a technical elective for students specializing in water resources or environmental engineering. Material in the course covers subsurface hydrology including both soil vadose zone processes and the ground water flow.

CWR 4812 Capstone Water Resources/Environmental Design (3)
PR: ENV 4001, CWR 4540
CR: ENV 4417, CEG 4012 or TTE 4005.
CPST, CST, TGEH
A capstone water resources design experience for seniors in Civil and Environmental Engineering. A design-oriented course to design both industrial and domestic water treatment and water transport systems and hydraulic systems.

DAA 2100 Fundamentals Of Modern Dance (2)
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.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>DAA 2104</td>
<td>Modern Dance I (2)</td>
<td>A studio class for students with a serious interest in concert modern dance. Further emphasis on correct alignment, development of strength, rhythmic and dynamic activity as well as spatial and locomotor patterns. May be repeated up to 8 credit hours.</td>
</tr>
<tr>
<td>DAA 2200</td>
<td>Fundamentals Of Ballet (2)</td>
<td>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.</td>
</tr>
<tr>
<td>DAA 2204</td>
<td>Ballet I (2)</td>
<td>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.</td>
</tr>
<tr>
<td>DAA 2500</td>
<td>Fundamentals Of Jazz Dance (2)</td>
<td>A basic movement course in Jazz Dance involving dance vocabulary, alignment, styles and simple rhythmic patterns. May be repeated up to 6 credits.</td>
</tr>
</tbody>
</table>
| DAA 2504    | Jazz Dance (2)                            | PR: 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)                    | PR: 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 (1-3)                     | 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 (1-3)                    | Continuation of DAA 3108. Further emphasis on style and phrasing. Work on projecting mood and quality by dancing and rehearsing in more advanced choreography, leading to performance. May be repeated. |
| DAA 3209    | Ballet III (1-3)                          | Continuation of DAA 3208. Intensification of barre exercises for the development of strength and form. Application of phrasing and movement. Material covered as practical work in class for concerts and performances. May be repeated. |
| DAA 3214    | Ballet II (1-3)                           | Positions and barre exercises. Emphasis on correct alignment of the body and the application of simple step combinations in centre work. The use of ballet vocabulary (French terms). Material is covered almost totally as practical work in class with a few outside projects. Concert and performance attendance required. May be repeated. |
| DAA 3294    | Ballet Variations (1)                     | 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)                    | 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)                        | CR: DAA 3108 or DAA 3214  
Focus is upon movement invention and concepts of time, space and force. Integration of basic musical foundations and compositional structures, i.e. ABA and Canon, theme/variation. Research of various musical genres, rhythms and styles. |
| DAA 3615    | Choreography II (2)                       | PR: DAA 3614  
This course focuses on the use of choreographic devices/tools for movement inspiration, improvisation for generating movement, creating meaning, and music and its relation to the art form of dance (i.e. meter, tempo, rhythm, and style). |
| DAA 3624    | Dance Improvisation (2)                   | GCPC, GCPC  
Exploring various methods of spontaneously creating dance movement in individual and group situations. Focus is upon movement expression as communication and as a revealing aspect of self-hood. |
<p>| DAA 3654    | Repertory I (1)                           | The development and performance of solo and/or group dances.                                                                                                          |</p>
<table>
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<tr>
<td>DAA 3684</td>
<td>Repertory II (1)</td>
<td>The development and performance of solo and/or group dances.</td>
</tr>
<tr>
<td>DAA 3686</td>
<td>Junior Performance Project (1)</td>
<td>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.</td>
</tr>
<tr>
<td>DAA 4110</td>
<td>Modern Dance IV (1-4)</td>
<td>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.</td>
</tr>
<tr>
<td>DAA 4211</td>
<td>Ballet IV (1-3)</td>
<td>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.</td>
</tr>
<tr>
<td>DAA 4616</td>
<td>Choreography III (2)</td>
<td>PR: DAA 3615 CR: DAA 3109 or above, or DAA 3209 or above Course emphasis is primarily on group choreography, along with a final project where students work with incorporating text and movement. Continuation of the study of meter, tempo, rhythm, and style in music, as well as dynamics and phrasing.</td>
</tr>
<tr>
<td>DAA 4617</td>
<td>Choreography IV (2)</td>
<td>PR: DAA 4616 The focus of this course is taking choreography beyond the stage, structured around two main projects: creating a site-specific work, and filming/editing a dance video project, including creating an audio score. Introduction to music editing.</td>
</tr>
<tr>
<td>DAA 4687</td>
<td>Performance (1-2)</td>
<td>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.</td>
</tr>
<tr>
<td>DAA 4694</td>
<td>Senior Choreography Project (1-5)</td>
<td>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.</td>
</tr>
<tr>
<td>DAA 4930</td>
<td>Dance Studies (1-3)</td>
<td>Dance Major status. Individual study to extended competency in technique and performance of Dance through participation in special workshops.</td>
</tr>
<tr>
<td>DAE 4340</td>
<td>Dance Pedagogy: Secondary Curriculum (3)</td>
<td>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.</td>
</tr>
<tr>
<td>DAE 4340L</td>
<td>Dance Pedagogy: Internship (1)</td>
<td>CR: DAE 4340 This course is designed to meet the needs of students interested in teaching at the secondary level (Middle/High School). It provides an internship experience where students have the opportunity to develop their teaching skills in a public school setting.</td>
</tr>
<tr>
<td>DAE 4394</td>
<td>Senior Seminar In Dance Education (2)</td>
<td>CR: DAE 4940 This course represents a synthesis of the teacher candidates courses and is required concurrently with the internship.</td>
</tr>
<tr>
<td>DAN 2100</td>
<td>Understanding the Dance Experience (3)</td>
<td>6ACT, 6ACT, TGEC A study of dance through lectures, discussions, concert attendance, and studio practice. Designed to develop awareness and insight of dance through creation, discussion, observation, writing, and movement experiences.</td>
</tr>
<tr>
<td>DAN 2160</td>
<td>Entry Seminar (2)</td>
<td>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.</td>
</tr>
<tr>
<td>DAN 3584</td>
<td>Technical Theatre in Dance (2)</td>
<td>An introductory course in technical production including lighting, sound, scenic, stage management/production and front of house. Requires load-in hours/crew assignments during USF Fall and Spring Dance Concerts.</td>
</tr>
<tr>
<td>DAN 3614</td>
<td>Music For Dance (2)</td>
<td>Development of musical skills in movement studies. Continued study of the inter-relationship of music and dance through movement experiences, observations, video, and writing.</td>
</tr>
<tr>
<td>DAN 3615</td>
<td>Music For Dance II (2)</td>
<td>PR: DAN 3614 Development of practical music skills in relation to dance. Continued problems in rhythmic materials and the relationship of music forms to dance. Elements within historical context.</td>
</tr>
</tbody>
</table>
COURSE DESCRIPTIONS

UNIVERSITY OF SOUTH FLORIDA 2019-20 UNDERGRADUATE CATALOG

DAN 3714 Dance Kinesiology (3)
This course will give the student an understanding of basic human anatomy and how it functions in relation to movement, injury prevention, teaching and performance. Individual structural differences and how these affect movement potential will also be studied. There will be an emphasis on the kinesiological analysis of movement with the goal of increased efficiency, enhanced performance and injury prevention.

DAN 4134 Ballet History (3)
6ACT, 6ACT, WRIN
This is a lecture course in dance history stemming from its roots in Renaissance court dance through the mid-20th century focusing primarily on the history of ballet as an art form.

DAN 4135 20th Century Dance History (3)
CPST, HHCP
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 I (3)
This course will introduce basic research tools and 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. Interdisciplinary linkages will be explored.

DAN 4163 Research in Dance II (2)
PR: DAN 4162 with a minimum grade of C-
This course will build upon the research methods and processes introduced in the Research in Dance 1 course. Students in the BA degree track in dance are required to take this course to develop their research proposal for the independent research project.

DAN 4180 Dance Senior Seminar (2)
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)
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)
Independent studies in the various areas of Dance. Must receive approval prior to registration. May be repeated.

DAN 4930 Selected Topics In Dance (1-3)
The content of the course will be governed by student and instructor interest. May be repeated by majors.

DEP 2004 The Life Cycle (3)
SMEL, SMSS
An examination of individuals and the physical, cognitive, personality, and social changes which occur throughout the entire life span.

DEP 3103 Child Psychology (3)
Developmental and psychosocial aspects of childhood, including hereditary, maturational, psychological, and social determinants of child behavior.

DEP 4053 Developmental Psychology (3)
PR: PSY 3213 with a grade of C or better
Survey of methods, empirical findings, and theoretical interpretations in the study of human development.

DEP 4220 Autism Spectrum Disorders (3)
PR: PSY 3213
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.

DIG 3119C Digital Drawing (3)
PR: ART 2301C with a minimum grade of C
Exploration of digital vector and raster based illustration and design. Students synthesize traditional drawing and painting skills with digital tools. Includes study of digital imaging, drawing systems, color theory, and idea generation.

DIG 3306C 3D Animation (3)

DIG 3323C Digital Sculpture (3)
Hands-on exploration of high-polygon digital sculpting for art and design. Students digitally sculpt figures and organic forms for 2D images, animation, 3D environments, and digital fabrication. Includes study of history, theory, and practices.
### EAP 1850 English for International Students I (6)
This course supports the development of academic English for international students, with an emphasis on processing and integrating information from academic texts and lectures, and applying pragmatic skills in university interactions.

### EAP 1851 English for International Students II (6)
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)
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)
PR: EEX 4012, or equivalent
Survey of emotional, behavioral and social disorders in children and youth. History of the field, definitions, classifications, theoretical approaches, intervention techniques, classroom management, service delivery models, trends and issues.

### EBD 4909 Directed Study: Behavior Disorders (1-3)
To extend competency in teaching field.

### EBD 4941 Undergraduate Supervised Practicum in Behavior Disorders (1-6)
PR: EEX 4012
Supervised field experience in assessment, classroom management, and clinical teaching with children who have emotional and behavioral disabilities.

### ECH 3002 Introduction to Chemical and Biomedical Engineering (2)
Introduce chemical and biomedical engineering careers through discussion, videos, industrial/academic speakers, problems by virtual experiments to gather data for modeling and analysis with software tools.

### ECH 3023 Material and Energy Balances (3)
PR: PHY 2048 with a minimum grade of C or PHY 2060 with a minimum grade of C or Physics C: Mechanics with a minimum score of 4, MAC 2282 with a minimum grade of C or MAC 2312 with a minimum grade of C or Calculus BC with a minimum score of 4, CHM 2046 with a minimum grade of C or Chemistry with a minimum score of 5, ECH 3854 with a minimum grade of C-
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 (2)
CPR: ECH 4267 with a minimum grade of C-
Laboratory experiments in chemical engineering topics, such as mass and energy balances, transport phenomena and thermodynamics. Accompanied by lectures on safety, data analysis, and obtaining information.

ECH 3266 Transport Phenomena I (3)
PR: EGN 3343, ECH 3023, MAP 2302 OR EGN 3333
Introduce principles of momentum, mass and heat transport. Mathematical modeling of transport in one dimension and obtain solutions for fluxes and profiles. To utilize them to obtain engineering quantities.

ECH 3702 Instrument Systems I (3)
PR: MAP 2302 or EGN 3433, EGN 3343 and ECH 3023
Basic concepts of electric circuits and their applications. Resistors, capacitors, inductors, logic operations, junction devices. Programmable Logic controllers, ladder diagrams.

ECH 3854 Engineering Computations (3)
CPR: MAC 2282 with a minimum grade of C or MAC 2312 with a minimum grade of C or Calculus BC with a minimum score of 4
Engineering statistics and programming in MATLAB, with applications to ChBME problems. Includes numerical representations, matrix indexing, nested loops, conditional statements.

ECH 4123 Chemical Engineering Thermodynamics (3)
PR: ECH 3023, EGN 3343, MAP 2302 or EGN 3333
Correlation of thermodynamic properties of real systems and solutions. Description of multicomponent, multiphase systems in equilibrium. Applications to separation processes and rector design.

ECH 4214L Chemical Engineering Laboratory II (2)
PR: ECH 3240L, ECH 4504, and ECH 4418
Laboratory experiments in reaction engineering, process control, heat and mass transfer. Lectures on theoretical concepts explored, sensors and data acquisition, data analysis, uncertainty analysis and experimental design.

ECH 4244L Chemical Engineering Lab III (1)
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)
PR: MAP 2302, EGN 3343

ECH 4265C Mass Transfer Operations (4)
PR: ECH 4845, ECH 4264, ECH 4123
Integration of phase equilibria with the principles of fluid mechanics, heat and mass transfer in the description of separation processes. Selection of the number of stages and limiting operating conditions in cascades -- NTU and HTU. Sizing of partial condensers and pressure differential in columns. Transfer to single particles.

ECH 4267 Transport Phenomena II (3)
PR: ECH 3266 and ECH 4123 and ECH 4846
Introduce application of unsteady and steady state modeling in mass, momentum, and heat transfer. Explain design based on transport processes for equipment such as heat exchangers, packed beds, mixing tanks etc.

ECH 4323 Process Dynamics and Control (3)
PR: ECH 4418

ECH 4415C Reaction Engineering (4)
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 4418 Separation Processes (3)
PR: ECH 3266 and ECH 4123 and ECH 4846
Design of stage-wise and continuous separation processes for gas absorption, distillation, adsorption, liquid-liquid extraction, membrane separations. Utilization of process simulators and design case studies.

ECH 4504 Kinetics and Reaction Engineering (3)
PR: CHM 2046 with a minimum grade of C or Chemistry with a minimum score of 5, ECH 4846 with a minimum grade of C-, ECH 4123 with a minimum grade of C-, ECH 3266 with a minimum grade of C-
The course introduces design of commercial chemical reactors, emphasizing synthesis of chemical kinetics and transport phenomena.
<table>
<thead>
<tr>
<th>Course Code</th>
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<th>Credits</th>
<th>Prerequisites</th>
<th>Corequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECH 4535</td>
<td>Catalysis: Concepts and Applications (3)</td>
<td>CPR: ECH 4123 with a minimum grade of C-</td>
<td>Descriptions of thermodynamic, dynamic, and structural features of surfaces; Analysis of the chemical bonds at surfaces; Assessment of unique properties of surfaces and exploitation in applications including heterogeneous catalysis.</td>
<td></td>
</tr>
<tr>
<td>ECH 4615</td>
<td>Product and Process Design (3)</td>
<td>PR: ECH 4605, ECH 4504, ECH 4418 CPR: ECH 4323C CPST</td>
<td>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.</td>
<td></td>
</tr>
<tr>
<td>ECH 4644</td>
<td>Process Equipment and Safety (3)</td>
<td>PR: ECH 4264, ECH 4123 CPR: ECH 4265</td>
<td>Design, sizing, selection and preparation of equipment specifications for the process industry in accordance with process safety management guidelines and OSHA requirements.</td>
<td></td>
</tr>
<tr>
<td>ECH 4680</td>
<td>Product Design and Manufacturing (3)</td>
<td>PR: ECH 4267 with a minimum grade of C-, ECH 4418 with a minimum grade of C-</td>
<td>product design development; finance, marketing, and microeconomics; structure property relations e.g., prediction, correlation, and search methods; performance analysis / modeling; visualization / prototyping; manufacturing; quality control; supply chain</td>
<td></td>
</tr>
<tr>
<td>ECH 4715</td>
<td>Chemical Process Safety and Ethics (2)</td>
<td>CPR: ECH 4605 with a minimum grade of C-</td>
<td>An introduction to the concepts and practice of chemical process safety and ethics</td>
<td></td>
</tr>
<tr>
<td>ECH 4783</td>
<td>Sustaining the Earth: An Engineering Approach (3)</td>
<td>CPR: ECH 4123 with a minimum grade of C-</td>
<td>An approach of the 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 the environment, societies, and economics</td>
<td></td>
</tr>
<tr>
<td>ECH 4804</td>
<td>Synthetic Fuel Production (3)</td>
<td>CPR: ECH 4123 with a minimum grade of C-</td>
<td>Descriptions of historic developments in transportation fuel production; current oil and gas industry methods for fuel production; Analyses of futuristic synthetic fuel production. Assessment of proposed future fuel economies.</td>
<td></td>
</tr>
<tr>
<td>ECH 4846</td>
<td>Numerical Methods in Chemical Engineering (3)</td>
<td>PR: ECH 3023 with a minimum grade of C-</td>
<td>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.</td>
<td></td>
</tr>
<tr>
<td>ECH 4905</td>
<td>Independent Study (1-4)</td>
<td></td>
<td>Specialized independent study determined by the student’s needs and interests. Students must have contract with instructor.</td>
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</tr>
<tr>
<td>ECH 4931</td>
<td>Special Topics in Chemical Engineering II (1-3)</td>
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<tr>
<td>ECH 4944</td>
<td>Industry Internship (1-3)</td>
<td>PR: ECH 3023</td>
<td>Individual study as practical chemical and biomedical engineering related work under industrial supervision with a faculty approved outline and end-of-semester report.</td>
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</tr>
<tr>
<td>ECH 5320</td>
<td>Chemical Process Engineering I (4)</td>
<td></td>
<td>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.</td>
<td></td>
</tr>
</tbody>
</table>
ECH 5321 Chemical Process Engineering II (4)
Basic concepts of fluid mechanics, including viscous fluids, pipe flow with minor losses, simple fluid machinery, momentum and external flow. Steady state conductive and convective heat transfer. Not available for chemical engineering students.

ECH 5322 Chemical Process Engineering III (4)
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)
PR: ECH 4323C
The course covers the root locus and frequency response methods to study stability of control loops. The techniques of ratio, cascade, feed forward, selective, override, and multi-variable control techniques are discussed in detail and shown how to utilize to design control systems, z-transforms and discrete controllers including PID, Dahlin and deadline compensation.

ECH 5327 Chemical Process Control (4)
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)
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)
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)
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)
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)
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)
ECH 5931 Special Topics IV (1-4)
ECH 5945 Chemical Engineering Industrial Internship (1-6)
Individual study as practical engineering work at an industrial facility or laboratory under the supervision of a faculty member interacting with the sponsoring industrial facility or laboratory.

ECO 1000 Basic Economics (3)
CASB
Survey of economic principles and issues. Scarcity, choice, markets, prices, the monetary system, unemployment, inflation, international trade and finance.

ECO 2013 Economic Principles (Macroeconomics) (3)
CASB, SGES, SMEL, SMSS, SPSS
ECO 2013 introduces students to basic economic terminology, definitions and measurements of macroeconomic data, simple macroeconomic models, fiscal and monetary policy, and international macroeconomic linkages.

ECO 2023 Economic Principles (Microeconomics) (3)
6ACT, SMEL, SMSS, TGEC
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 2052 Analytical Tools for Economists (3)
Mathematical tools required for the study of undergraduate economics. Topics include algebra, graphing, and basic differential and integral calculus required for students to succeed in undergraduate economics courses.

ECO 2935 Selected Topics In Economics (1-3)
Topics selected by department. May be repeated if topics vary.

ECO 3101 Intermediate Price Theory (3)
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.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Prerequisites</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECO 3203</td>
<td>Intermediate Macroeconomics (3)</td>
<td>PR: ECO 2013 and ECO 3101 or ECP 3703 with a grade of D</td>
<td>Determination of income, employment, prices, and interest rates. Aggregate demand and aggregate supply.</td>
</tr>
<tr>
<td>ECO 4105</td>
<td>Advanced Price Theory (3)</td>
<td>PR: ECO 3101 or ECP 3703 with a grade of B or better</td>
<td>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)</td>
<td>PR: ECO 3203 with a grade of B or better</td>
<td>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)</td>
<td>PR: ECO 3101 or ECP 3703.</td>
<td>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 (3)</td>
<td>PR: ECO 1000 or ECO 2013 or ECO 2023</td>
<td>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 4400</td>
<td>Game Theory and Economic Applications (3)</td>
<td>PR: ECO 2013 and ECO 2023.</td>
<td>This course is an introduction to game theory, the study of strategic behavior among parties having opposed, mixed or similar interests.</td>
</tr>
<tr>
<td>ECO 4401</td>
<td>Introduction to Mathematical Economics (3)</td>
<td>PR: ECO 2013 and ECO 2023, and MAC 2241 or MAC 2233</td>
<td>Mathematical models of optimizing behavior and economic equilibrium.</td>
</tr>
<tr>
<td>ECO 4421</td>
<td>Introduction to Econometrics (3)</td>
<td>PR: ECO 3101 or ECP 3703 with a minimum grade of C-; and STA 2023 with a minimum grade of B</td>
<td>Survey of basic econometric techniques. Regression analysis employed to estimate consumption, investment, demand, cost, and production functions. Examines problems of auto-correlation, heteroscedasticity, multicollinearity, and specification errors.</td>
</tr>
<tr>
<td>ECO 4504</td>
<td>Public Finance (3)</td>
<td>PR: ECO 3101 or ECP 3703 with a grade of B or better</td>
<td>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)</td>
<td>PR: ECO 3101 or ECP 3703 with a grade of C or better</td>
<td>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)</td>
<td>PR: ECO 3101 or ECP 3703 with a grade of C or better</td>
<td>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)</td>
<td>Specialized independent study determined by the student's needs and interests. May be repeated up to 6 hours.</td>
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<tr>
<td>ECO 4914</td>
<td>Independent Research (1-3)</td>
<td>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>
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<tr>
<td>ECO 4935</td>
<td>Selected Topics in Economics (1-3)</td>
<td>Topics to be selected by the instructor or instructors on pertinent economic issues.</td>
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<tr>
<td>ECO 4970</td>
<td>Economics Honors Thesis (3)</td>
<td>This course is the climax of an undergraduate experience in the College of Business. Thesis development supports critical investigation to develop explanations or solutions to academically interesting business problems or opportunities.</td>
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<tr>
<td>ECP 3125</td>
<td>Economics of Inequality (3)</td>
<td>PR: ECO 1000 or ECO 2013 or ECO 2023 or equivalent Economic facts, theories and policies concerning income inequality, poverty and discrimination in the U.S. economy and elsewhere in the world.</td>
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<tr>
<td>ECP 3201</td>
<td>Economics of Women and Work (3)</td>
<td>PR: ECO 1000 or ECO 2013 and ECO 2023 EMWP 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>
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<tr>
<td>ECP 3203</td>
<td>Labor Economics (3)</td>
<td>PR: ECO 3101 or ECP 3703 with a grade of C or better SMLE 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>
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<tr>
<td>ECP 3302</td>
<td>Environmental Economics (3)</td>
<td>PR: ECO 3101 or ECP 3703 with a grade of C or better</td>
<td>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 3403</td>
<td>Industrial Organization (3)</td>
<td>PR: ECO 3101 or ECP 3703</td>
<td>Behavior of firms and market structure when the standard assumption of perfect competition in the market is violated. Existence of market power, how firms create and maintain it, implications of market power, and related public policy issues.</td>
</tr>
<tr>
<td>ECP 3413</td>
<td>Economics of Regulation and Antitrust (3)</td>
<td>PR: ECO 2013 and ECO 2023</td>
<td>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)</td>
<td>PR: ECO 3101 or ECP 3703 with a grade of C- or better Application of economic methods to health care topics such as demand for medical care, public and private health insurance, physician and hospital supply of medical care, government regulations, and national healthcare systems.</td>
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<tr>
<td>ECP 3613</td>
<td>Urban Economics (3)</td>
<td>PR: ECO 3101 or ECO 3703 The role of space in understanding urban areas and their problems. Economic forces determining where people and firms locate within urban areas. Urban economic growth and development, land-use regulation, urban sprawl, transportation, urban government.</td>
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<tr>
<td>ECP 3623</td>
<td>Regional Economics (3)</td>
<td>PR: ECO 3101 or equivalent Survey of regional economics covers theories of location and land use of households and firms; central place theory; spatial structure of urban economy; regional income determination; interregional migration; and urban and regional policy analysis.</td>
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<tr>
<td>ECP 3703</td>
<td>Managerial Economics (3)</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>
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</tr>
<tr>
<td>ECP 4006</td>
<td>Economics of Sports (3)</td>
<td>PR: ECO 3101 or ECO 3703 This course teaches economics using sports as a backdrop. Topics covered include the economics of labor markets, exploitation, discrimination, monopoly, monopsony, game theory, bargaining, and cartels. No particular knowledge of sports is required.</td>
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</tr>
<tr>
<td>ECP 4451</td>
<td>Law and Economics (3)</td>
<td>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.</td>
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<tr>
<td>ECP 4505</td>
<td>Economics of Crime (3)</td>
<td>PR: ECO 2013 and ECO 2023 Application of economic theory to the analyses of criminal behavior, crime prevention, law enforcement, sanctions, and corrections.</td>
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</tr>
</tbody>
</table>
ECP 4510 Economics of Education (3)  
PR: ECO 3101, or ECO 2023 and ECO 2013 with B or better  
Economic analysis of the goals of education in American society. Topics include theories of human capital and signaling, private returns to schooling, social welfare benefits and role of the public sector, and factors affecting educational productivity.

ECP 4704 Economics of Business Strategy (3)  
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)  
PR: ECO 2013 and ECO 2023  
Economic development in emerging nations.

ECS 4003 Comparative Economic Systems (3)  
PR: ECO 1000 or ECO 2013 or ECO 2023  
The major economic systems: traditional, capitalism, democratic socialism, communism and fascism.

ECS 4430 Economics of Latin America (3)  
PR: ECO 1000, or BOTH ECO 2013 and ECO 2023  
EMWP  
The course examines key aspects of economic reform efforts in Latin America and the Caribbean and the challenges facing the region at the beginning of the 21st century.

ECT 4905 Independent Study: Industrial-Technical Education (1-4)  
Specialized independent study determined by the student's needs and interests.

ECT 4909 Directed Study: Industrial-Technical Education (1-3)  
To extend competency in teaching field.

ECT 4936 Senior Seminar in Industrial-Technical Education (2)  
CR: EVT 4940.  
Synthesis of teacher candidate’s courses in complete college program.

ECT 5386 Preparation and Development for Teaching (4)  
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)  
Organization, coordination, and budgeting of adult, cooperative, and special programs.

EDE 4223 Creative Experiences: Using Arts-Based Inquiry & Design Thinking for Problem-Based Learning (3)  
6ACT, TGEC  
Students will have opportunities to use techniques from creative industries to develop arts-based inquiry strategies that can be used to foster design thinking and creative approaches to solving authentic problems across a variety of contexts and spaces.

EDE 4301 Instructional Planning for Diverse Learners (3)  
This course examines the legal issues affecting classroom/school management, school safety, professional ethics and elementary school methods. The course explores the current knowledge of best practices of a variety of teaching and management strategies and methods deemed appropriate for a diverse elementary classroom setting including ESOL students and other exceptionalities.

EDE 4504 Creating and Differentiating Learning Environments (3)  
Approaches to managing the elementary instructional environment and specific strategies for maintaining a safe, positive classroom climate are examined as well as current knowledge of innovative best practices in differentiated instruction.

EDE 4802 The Teacher as Researcher (3)  
CR: EDE 4940  
6ACT, 6ACT, WRIN  
This course prepares teacher candidates to conduct teacher research within their classrooms. This research is presented as a paper which is revised across the semester that summarizes the classroom research.

EDE 4905 Independent Study: Elementary Education (1-4)  
Specialized independent study determined by the student's needs and interests.

EDE 4909 Directed Study: Elementary Education (1-3)  
To extend competency in teaching field.

EDE 4940 Internship: Elementary Education (3-12)  
PR: EDE 4941 and EDE 4942  
CR: EDE 4802  
CPST  
Teacher candidate required to demonstrate professional competencies during full day internship in a public or private elementary school.

For Current Course Inventory, see [https://www.systemacademics.usf.edu/course-inventory/](https://www.systemacademics.usf.edu/course-inventory/)
### EDE 4941 Childhood Education Internship Level I
(3)
CR: RED 4310, EDG 4620
Students spend six hours per week in a supervised in-school experience and attend a weekly seminar.

### EDE 4942 Childhood Education Internship Level II
(3-6)
PR: EDE 4941, RED 4310, EDG 4620, EDF 3122, LAE 4314, EDE 4301, MAE 4310, SCE 4310, LAE 4414, SSE 4313, EME 2040.
Students spend two days per week in a supervised internship experience in classroom settings and attend a weekly seminar. Course is restricted to Elementary Education majors. Course is repeatable for credit, for a total of 6 credit hours.

### EDE 4943 Alternative Setting Field Experience (3)
PR: EDE 4942.
This alternative setting field experience course provides opportunities for Undergraduate Teacher Candidates to work with children in non-traditional, diverse settings and integrate course and field experiences to facilitate learning.

### EDE 4944 Childhood Education Internship Level III
(3)
PR: EDE 4942.
This internship experience complements foundational coursework expected in the Elementary Education program. Students spend two full days per week in an internship experience in K-6 classrooms. The classroom experiences are supplemented by a weekly seminar.

### EDF 2005 Introduction to the Teaching Profession
(3)
SMEL
Introductory survey course required for admission into the College of Education. A broad overview of the history, sociology and philosophy of education in the United States focuses on education as a field of study and teaching as a profession. Includes lecture and field experience.

### EDF 2085 Education, Diversity, and Global Society
(3)
6ACT, GCPC, GCPC, SMEL, TGED
The course explores the role of formal and informal education within an increasingly diverse and global society. The course covers sociocultural approaches to education with a focus on immigration, race, gender, language, sexuality, and ability.

### EDF 3122 Learning and the Developing Child
(3)
PR: General psychology
Preadolescent child growth and development, learning theory, and behavioral analysis applied to instruction and to the organization and management of classroom.

### EDF 3214 Human Development and Learning
(3)
PR: General Psychology
GCPC, GCPC
Application of respondent and operant learning principles to classroom learning, teaching models for different instructional goals, analysis of teacher behavior, micro-teaching.

### EDF 3228 Human Behavior and Environmental Selection
(3)
6ACT, 6ACT
Learning principles, behavior analysis applied to global environmental and social issues. Requires elementary computer word processing skills.

### EDF 3514 History of Education in the United States
(3)
6ACT, CASB, HHCP, TGEI
This course is designed to enhance students understanding of the history of education in the United States; how historic global economic and social changes shaped educational goals and institutions, and in what manner cultural conflict shaped the present.

### EDF 3604 Schools and Society
(3)
6ACP, 6ACT, EMWP, GCPC, GCPC, SMCD, TGEE, WRIN
Social, economic and political context within which schools function and the values which provide direction for our schools.

### EDF 4124 Child Growth and Learning
(3)
PR: General psychology
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)
PR: General psychology
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)
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 4490 Studies in Research Design
(3)
Studies in Research Design introduces students to the logic and dynamics of the research process.
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<tr>
<td>EDF 4905</td>
<td>Independent Study: Educational Foundations (1-4)</td>
<td>Specialized independent study determined by the student's needs and interests.</td>
</tr>
<tr>
<td>EDF 4909</td>
<td>Directed Study: Educational Foundations (1-3)</td>
<td>To extend competency in teaching field.</td>
</tr>
<tr>
<td>EDF 5607</td>
<td>Trends in Education Politics (3)</td>
<td>Contemporary education politics in the U.S. with interdisciplinary social-science perspectives.</td>
</tr>
<tr>
<td>EDG 3361</td>
<td>Positive Psychology in the Schools (3)</td>
<td>This course surveys the tenets of positive psychology, explores evidence-based interventions to improve happiness, and helps students apply positive psychology interventions through a school-based service-learning project with children.</td>
</tr>
<tr>
<td>EDG 3801</td>
<td>Cybersecurity and the Everyday Citizen (3)</td>
<td>This course explores the human side of cybersecurity in a globally connected world. We will focus on personal, social and policy issues as well as address strategies to secure our digital footprints and promote safe interactions.</td>
</tr>
<tr>
<td>EDM 3403</td>
<td>Middle Level Education (3)</td>
<td>Middle level teacher candidates will learn the tenets of middle level education for today's young adolescent learner, with an emphasis on the developmental needs of young adolescent learners and the latest trends and issues in middle level education.</td>
</tr>
<tr>
<td>EDM 4275</td>
<td>Enhancing Children's Learning and Development within a School Context (1)</td>
<td>A course that helps students to design instruction while considering individual differences &amp; theories and research in child development and learning. Emphasis on the Elementary School years. Restricted to elementary or Special Education majors.</td>
</tr>
<tr>
<td>EDM 4406</td>
<td>Contemporary Issues in STEM Education (3)</td>
<td>CR: MAE 4942 or SCE 4942 CPST Provides middle school mathematics and science teacher candidates opportunities to explore STEM issues and their role in the STEM pipeline, experience integrated STEM learning opportunities, and develop problem and place-based learning activities.</td>
</tr>
</tbody>
</table>

For Current Course Inventory, see [https://www.systemacademics.usf.edu/course-inventory/](https://www.systemacademics.usf.edu/course-inventory/)
EEC 4211 Science for Young Children (3)
PR: EDF 4124
The purpose of this course is for pre-service teachers to apply research-based learning theories to plan and teach science effectively in the Early Childhood classroom. Enrollment is restricted to majors.

EEC 4212 Integrated Curriculum: Social Sciences/Humanities & Art (3)
PR: EDF 4124
Develops an understanding of appropriate curriculum experiences in social science, humanities, and arts for kindergarten and primary grades with an emphasis on integrated experiences, and sociological influences such as culture, ethnicity, language and gender impact understandings, values, and learning.

EEC 4303 Creative and Affective Experiences for Young Children (3)
Develops students' understandings of young children's creative expression through art, music, movement, play and drama. Emphasizes how to plan, implement, and evaluate appropriate learning experiences as well as selection of appropriate instructional materials.

EEC 4307 Cognitive Experiences for Young Children (3)
PR: EDF 4124
Emphasizes theoretical and practical aspects of cognitive development for children ages 3 through 6 with focus on planning integrated experiences and content in science, mathematics, and social sciences.

EEC 4321 Mathematics for Young Children (3)
The purpose of this course is for pre-service teachers in the Early Childhood Program to apply research-based learning theories to plan and teach math effectively in the Early Childhood classroom.

EEC 4408 Child, Family & Teacher Relations (3)
PR: EDF 4124
Focuses on developing an understanding of traditional and non-traditional families, structural and life style variations and parenting in diverse cultures and at-risk families. Implications from these understandings will guide development of a parent involvement plan that includes effective ways to communicate with parents, conference with parents, and plan parent meetings and home visits.

EEC 4604 Classroom Management and Guidance of Young Children (3)
CR: LAE 4414, EEC 4408, RED 4310.
This course for early childhood education majors explores the current knowledge of guidance procedures and techniques for managing classrooms for children ages 3 to 8 years old.

EEC 4613 Assessment and Evaluation of Young Children (3)
This course focuses on assessment and evaluation procedures when working with young children ages 3-8. It examines appropriate ways of observing and documenting children, and ways of implementing, interpreting, and utilizing multiple assessment data.

EEC 4614 Current Trends and Issues in Early Childhood Education (3)
This course focuses on the current trends and issues in the field of early childhood education. It examines how the political and societal underpinnings of the early education system are influencing schools, teachers, young children, and their families.

EEC 4706 Language and Emerging Literacy (3)
PR: EDF 4124
Provides knowledge of language development and emerging literacy for typical and atypical development in children from birth to third grade, including ESOL children.

EEC 4905 Independent Study: Early Childhood Education (1-4)
Specialized independent study determined by the student's needs and interests.

EEC 4909 Directed Study: Early Childhood Education (1-3)
To extend knowledge in teaching field.

EEC 4936 Senior Seminar in Early Childhood Education (3)
CR: EEC 4940, CPST, TGEH
This course focuses on helping the student synthesize university coursework and experiences in a full-time Pre-K and primary teaching placement. Emphasis is placed on planning and implementing developmentally appropriate teaching-learning experiences.

EEC 4940 Internship: Early Childhood (9)
CR: EEC 4936
Teacher candidate is required to demonstrate professional competences during one semester of full-time final internship teaching young children ages 3 through 8.
EEC 4941 Field Experience I (3)
Field placement with three and four year olds where teacher candidates have opportunities to apply knowledge and skills in authentic situations and become objective observers of young children's development. Weekly seminars are conducted in conjunction with the field experience which provide teacher candidates an opportunity for reflection on their understandings.

EEC 4942 Field Experience II (3)
Field placement in kindergarten or primary grade where teacher candidates have opportunities to apply knowledge and skills in authentic situations. Emphasis on developing deeper understanding of children's development and implications of development for program planning for both typical and atypical children.

EEC 4943 Field Experience III (3)
Field placement in kindergarten or primary grade where teacher candidates have opportunities to apply knowledge and skills in authentic situations. Focus on developing deeper understanding of growth and development and relationship to curriculum planning with an emphasis on self-evaluation of knowledge, skills, and dispositions essential for teaching.

EEE 3302 Electronics I (3)
PR: EGN 3373 with a minimum grade of B.
A course in the physical principles of electronic devices with emphasis on semi-conductor electronics. Includes the analysis and design of amplifiers and switching circuits.

EEE 3394 Electrical Engineering Science I - Electronic Materials (3)
PR: CHS 2440 with a minimum grade of C or CHM 2045 with a minimum grade of C or Chemistry with a minimum score of 4, PHY 2048 with a minimum grade of C or PHY 2060 with a minimum grade of C or Physics C: Mechanics with a minimum score of 4
CPR: MAC 2283 with a minimum grade of C or MAC 2313 with a minimum grade of C
This course provides electrical and computer engineering students with a strong background in material science and quantum physics as they relate to electrical/electronic material and device properties and applications.

EEE 4260C Bioelectricity (3)
PR: CHS 2440 with a minimum grade of C or CHM 2045 with a minimum grade of C or Chemistry with a minimum score of 4, PHY 2049 with a minimum grade of C or PHY 2061 with a minimum grade of C or Physics C: Electy/Mgntsm with a minimum score of 4
Bioelectricity, generation and transmission from cells through tissues. Electrical activity in and among cells is explored from historical models through hands-on laboratory experience.

EEE 4271 Bioelectronics (3)
This is the second course in the series covering bioelectrical phenomena and systems. In this course the focus is electronics for biomedical applications, and the objective is to discuss electrical systems pertaining to the human body.

EEE 4274 MEMS I: Chemical/Biomedical Sensors and Microfabrication (3)
The course gives an introduction to MEMS, microfabrication techniques and processes as well as basic design principles of biological and chemical Sensors. The course concentrates on basics of MEMS, different processes involved and principles of sensing.

EEE 4301 Electronics II (3)
PR: EEE 3302.
Provides further study in electronic circuits. Includes feedback and frequency response techniques in amplifier design.

EEE 4305 Communications Electronics (3)
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)
PR: EEE 3394.
An introduction to the fundamentals of semiconductor materials and semiconductor device operation.

EEE 4359 Analog CMOS/VLSI Design (3)
PR: EEE 3302
CR: EEE 4301
This course covers Analog CMOS/VLSI design with topics ranging from devices to circuits and their simulations, and basics of layout design and their simulations.
## COURSE DESCRIPTIONS

### EEE 4410 System on a Chip (3)
- **PR:** EGN 3373
- This course addresses the newly emerging area of System on a Chip (SoC), which is envisioned as the next revolution beyond integrated circuits. Students will learn the principles and techniques that are expected to apply to this future technology.

### EEE 4506 Biomedical Image Processing (3)
- 2D signal processing: image enhancement; edge detection and image segmentation. Medical imaging: 3D computerized tomography, magnetic resonance imaging; single photon emission computed tomography; positron emission tomography; radiographs.

### EEE 5344C Digital CMOS/VLSI Design (3)
- **PR:** EEL 4705
- 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)
- **PR:** EEL 4351
- 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 5382 Physical Basis Of Microelectronics (3)
- **PR:** EEL 4471
- 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 Programming with C (3)
- An introductory course to provide the fundamentals of computer language for electrical engineering students. Skills on syntax, functions, data, input and output, algorithm, and creating solutions for engineering problems using C.

### EEL 3100 Network Analysis and Design (3)
- **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 3116L Laboratory II (1)
- **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 3163C Computer Tool Lab (1)
- **PR:** EEL 2161 with a minimum grade of C
- An introductory course to provide the knowledge on using Matlab and Simulink for solving wide range of problems in the field of electrical engineering - differential equation, convolution, Fourier Series and Transform, Laplace Transform, DSP, and etc.

### EEL 3472C Electrical Engineering Science II - Electromagnetics (4)
- **PR:** EGN 3420 with a minimum grade of C, EEE 3394 with a minimum grade of C
- Electromagnetic field theory, including charge distributions, static and dynamic electromagnetic fields, transmission lines and dynamic electromagnetic fields, transmission lines and optics.

### EEL 3705 Fundamentals of Digital Circuits (3)
- Binary number systems; truth functions; Boolean algebra; canonical forms; minimization of combinational logic circuits; synchronous and Asynchronous logic circuits. HDL’s introduction.

### EEL 3705L Fundamentals of Digital Circuits Laboratory (1)
- **PR:** EEL 3705
- Develop designs and demonstrate logic concepts. Schematic capture for design implementation, simulation and design verification.

### EEL 3924 Makecourse-Art: Leonardo in the New Millennium (3)
- This course aims to introduce students to the design of products with functional and aesthetic beauty. All students will design a device combining the engineering design process with artistic methodology.

### EEL 4030 Electrical Systems Environments (3)
- **PR:** MAP 2302 and PHY 2049
- Dynamics, vibration, thermodynamics, and heat transfer in electrical, electronic, and electromechanical systems and their environments.

### EEL 4102 Signals and Systems (3)
- **PR:** EGN 3420 with a minimum grade of C, EGN 3374 with a minimum grade of C
- Provides further study in the analysis of signals and linear systems. Includes time and frequency domain points of view such as Laplace and Fourier analysis as well as convolution.
EEL 4206L Electromechanical Energy System Lab (1)
PR: EGN 3374 with a minimum grade of C
CR: EGN 3375
This course aims to provide students with hands-on experience related to Electric Mechanical Conversion Systems.

EEL 4212 Energy Delivery Systems (3)
PR: EEL 4241 with a minimum grade of C
The course provides the students the fundamentals and analysis of the electric power delivery system to facilitate the integration of distributed energy resources, e.g. solar energy.

EEL 4213 Industrial Power Distribution 1 (3)
PR: EGN 3375 with a minimum grade of C
Prepares the student to design electrical power systems for industrial applications. Source configurations, transformer connections, symmetrical and asymmetrical fault calculations, protective device sizing, arc flash calculations.

EEL 4214 Electric (Utility) Distribution Systems (3)
PR: EGN 3375 with a minimum grade of C, EEL 4213 with a minimum grade of C
Familiarizes the student with electric utility power distribution systems. Modeling loads; distribution transformers; subtransmission lines, substations, and distribution primary and secondary; power system calculations, voltage regulation, protection methods.

EEL 4224 Electric Machines and Drives (3)
PR: EGN 3375 with a minimum grade of C, EEL 4241 with a minimum grade of C
This course examines power electronic for motor control. AC motor control objectives and realization through power electronic converters will be discussed and validated through Matlab/SimPowerSystems based circuit simulation.

EEL 4241 Power Electronics (3)
PR: EGN 3373 with a minimum grade of B or EGN 3374 with a minimum grade of B
This course covers circuit topologies used to convert electricity from one form to another. The course will emphasize switch mode building blocks, variety of converters based on the building block, Pulse Width Modulation based control, and applications.

EEL 4243 Switching Power Supply Design (3)
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 4251 Power System Analysis (3)
PR: EGN 3374 with a minimum grade of B, EGN 3375 with a minimum grade of C
This course will introduce analysis and operation of power systems. The topics covered in this course include per unit system, load flow analysis, voltage stability, economic dispatch, state estimation and power system economics.

EEL 4252 Power Systems II (3)
PR: EGN 3375 with a minimum grade of C, EEL 4102 with a minimum grade of C
Power system control and stability will be covered in this course. The two main controls in power system are voltage control and frequency control. The mechanism of the two types of control & power system stability will be examined.

EEL 4258 Industrial Power Distribution 2 (3)
PR: EEL 4213 with a minimum grade of C
Prepares the student to design electrical power systems for industrial applications. Raceway design, switchgear and motor control centers, ladder logic, motor application, lighting systems.

EEL 4271 Power System Protection (3)
PR: EGN 3375 with a minimum grade of C, EEL 4213 with a minimum grade of C
Protection philosophy; electromechanical and microprocessor relays; device coordination; instrument transformers; distance and differential relays; non-radial line, transformer, and generator/motor protection.

EEL 4283 Sustainable Energy (3)
This course aims to introduce students to concepts of sustainable energy conversion. Solar, wind, hydroelectricity, hydrogen, biomass and geothermal energy conversion methods as well as main storage technologies will be discussed.

EEL 4295 Power Quality (3)
PR: EGN 3375 with a minimum grade of C
Basic power quality concepts including interruptions, voltage sags and swells, transient overvoltages, and harmonics. Emphasis on identifying and designing means of mitigation for commonly-encountered power quality problems.

EEL 4420 RF & Microwave Measurements (2-3)
PR: EEL 4423L
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.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>EEL 4421</td>
<td>RF/Microwave Circuits I (3)</td>
<td>CPR: EEL 4423C, with a minimum grade of C.</td>
</tr>
<tr>
<td></td>
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<td>Introduction to passive microwave circuit design.</td>
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<td>Investigate the characteristics of transmission lines used in modern microwave</td>
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<td>systems, the tools used for analysis, and some common circuit topologies</td>
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<td>for matching, filtering and power distribution.</td>
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<td>Part one of a two-part sequence. EE majors only. Not available on an S/U basis.</td>
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<tr>
<td>EEL 4422</td>
<td>RF/Microwave Circuits II (3)</td>
<td>PR: EEL 4421.</td>
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<tr>
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<td>Introduction to active RF/Microwave circuit design.</td>
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<td>Investigate the characteristics of amplifiers and oscillators used in modern</td>
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<tr>
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<td>microwave systems, the tools used for analysis, and some common circuit</td>
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<td>topologies for biasing and matching.</td>
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<td>Substantial coverage of stability analysis, constant gain methods and noise</td>
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<td>figure. Part two of a two-part sequence. EE majors only. Not available on an</td>
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<td>S/U basis.</td>
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<tr>
<td>EEL 4423C</td>
<td>Wireless Circuits &amp; Systems Design Laboratory (3)</td>
<td>PR: EEL 3472C with a minimum grade of C.</td>
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<tr>
<td></td>
<td></td>
<td>An extensive hands-on introduction to wireless radio frequency and microwave</td>
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<td></td>
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<td>circuits and systems, involving modern measurements, fabrication and</td>
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<td>computer-aided design experiences at both component and sub-system levels.</td>
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<td>Not available on an S/U basis.</td>
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<tr>
<td>EEL 4461</td>
<td>Antenna Theory (3)</td>
<td>PR: EEL 3472C with a minimum grade of C or EEL 4423L with a minimum grade of</td>
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<td>C. Fundamental principles of antennas and application of EM theory for antenna</td>
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<td>analysis and design. Different types of antennas and their applications are</td>
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<td>introduced with particular focus on linear, loop, patch antennas and antenna</td>
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<td>arrays.</td>
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<tr>
<td>EEL 4512C</td>
<td>Introduction to Communication Systems (3)</td>
<td>PR: EEL 4102 with a minimum grade of C.</td>
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<tr>
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<td></td>
<td>Provides an introduction to the fundamental principles and techniques of</td>
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<td>analog and digital communication systems. Theory is put into practice by</td>
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<td>investigating a variety of applications. Lectures and projects develop</td>
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<td>understanding of modern communication systems design and analysis.</td>
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<tr>
<td>EEL 4567</td>
<td>Electro-Optics (3)</td>
<td>PR: EEL 3115L, EEL 3116L, EEL 4471.</td>
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<tr>
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<td>An introduction to the field of electro-optics, including visible and</td>
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<td>infra-red sources and detectors, radiometry, optical and electronic</td>
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<td>components, and fiber optics.</td>
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<tr>
<td>EEL 4595</td>
<td>Mobile and Personal Communication (3)</td>
<td>Providing the students with a comprehensive knowledge of most technical</td>
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<td>aspects, operations, and applications of second/third/fourth generations and</td>
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<td>future cellular mobile and personal communication technology.</td>
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<tr>
<td>EEL 4657</td>
<td>Linear Control Systems (3)</td>
<td>PR: EGN 3374 with a minimum grade of C.</td>
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<tr>
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<td>Analysis and design of linear feedback controls systems. State Variable</td>
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<td>descriptions to include block diagrams, signal-flow graphs, stability, Routh</td>
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<td>Hurwitz analysis, Root Locus methods, Bode plots, PID compensators, &amp;</td>
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<td>introduction to full-state feedback.</td>
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<tr>
<td>EEL 4657L</td>
<td>Linear Controls Laboratory (1)</td>
<td>PR: EEL 3100.</td>
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<td>CR: EEL 4657.</td>
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<td></td>
<td>This laboratory introduces students to the techniques needed for the design</td>
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<td>and implementation of automatic industrial control systems. Students will</td>
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<td>learn the basics of the software and hardware used for the design and</td>
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<td>implementation of control systems.</td>
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<tr>
<td>EEL 4727C</td>
<td>Digital Signal Processing with Field Programmable</td>
<td>PR: EEL 4102 and EEL 4512C.</td>
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<td>(3)</td>
<td>Development of real-time digital signal processing systems from algorithm to</td>
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<td>hardware using DSP, FPGA and hybrid DSP/FPGA rapid prototyping</td>
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<td></td>
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<td>platforms. The course has both lecture and laboratory components.</td>
</tr>
<tr>
<td>EEL 4740</td>
<td>Embedded Systems (3)</td>
<td>PR: EEL 4744 with a minimum grade of C.</td>
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<tr>
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<td>This course covers the principles of hardware and software design for</td>
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<td>higher-end embedded systems inherent in many hardware platforms and applications being developed for engineering and science.</td>
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<tr>
<td>EEL 4743L</td>
<td>Microprocessor Laboratory (1)</td>
<td>CR: EEL 4744.</td>
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<tr>
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<td></td>
<td>Application of microprocessors and microcontrollers for data entry,</td>
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<td>processing, display and real time signal input/output and control.</td>
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<tr>
<td>EEL 4744</td>
<td>Microprocessor Principles and Applications (3)</td>
<td>PR: EEL 4705.</td>
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<tr>
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<td>Interrupts and priority systems. Software design and documentation.</td>
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<td>Distributed function processing.</td>
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<tr>
<td>EEL 4756</td>
<td>Digital Signal Processing (3)</td>
<td>PR: EEL 4102.</td>
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<tr>
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<td>Sampling and quantization of signals; frequency-domain representations,</td>
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<td>transforms; digital filtering filter structures; DFT, FFT; multi-rate</td>
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<td>processing, Special analysis.</td>
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</tbody>
</table>

For Current Course Inventory, see [https://www.systemacademics.usf.edu/course-inventory/](https://www.systemacademics.usf.edu/course-inventory/)
<table>
<thead>
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</tr>
</thead>
<tbody>
<tr>
<td>EEL 4781C</td>
<td>Distributed Process &amp; Computer Networks (3)</td>
<td>PR: EEL 4851C</td>
<td>Design and analysis of distributed processing systems. Covers communication hardware and software, network operating systems, and reliability enhancement techniques.</td>
</tr>
<tr>
<td>EEL 4852C</td>
<td>Data Base Systems (3)</td>
<td>PR: EEL 4851C</td>
<td>Fundamentals of data base management systems. Codasyl, network, hierarchical, and relational data base systems are analyzed, and typical applications are presented.</td>
</tr>
<tr>
<td>EEL 4905</td>
<td>Independent Study (1-5)</td>
<td></td>
<td>Specialized independent study determined by the students' needs and interests.</td>
</tr>
<tr>
<td>EEL 4906</td>
<td>EE Design 1 (3)</td>
<td>PR: EEL 4851C</td>
<td>An introduction of engineering design with applications specific to practical engineering problems. Included are discussion of real-world issues as economics, safety, ethics and the environment.</td>
</tr>
<tr>
<td>EEL 4914</td>
<td>EE Design 2 (3)</td>
<td>PR: EEL 4906</td>
<td>CPST Students apply the knowledge acquired in the classroom to design a system which meets a predetermined set of specifications. Students work individually or in small groups with a faculty member (project director) in their area of interest. (Majors only.)</td>
</tr>
<tr>
<td>EEL 4935</td>
<td>Special Electrical Engineering Topics I (1-3)</td>
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<tr>
<td>EEL 4936</td>
<td>Special Electrical Engineering Topics II (1-3)</td>
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<tr>
<td>EEL 4937</td>
<td>Special Electrical Engineering Topics III (1-3)</td>
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<tr>
<td>EEL 5250</td>
<td>Power System Analysis (3)</td>
<td>PR: EGN 3375</td>
<td>Analysis and design technique for AC power systems.</td>
</tr>
<tr>
<td>EEL 5462</td>
<td>Antenna Theory (3)</td>
<td>PR: EEL 4471</td>
<td>Antenna theory beginning with fundamental parameter definitions and continuing with mathematical concepts, elemental antennas and arrays.</td>
</tr>
<tr>
<td>EEL 5594L</td>
<td>Wireless Circuits and Systems Laboratory (3)</td>
<td></td>
<td>An extensive hands-on introduction to wireless radio frequency and microwave circuits and systems, involving modern measurements, fabrication and computer-aided design experiences at both component and sub-system levels.</td>
</tr>
<tr>
<td>EEL 5771</td>
<td>Introduction to Computer Graphics I (3)</td>
<td>PR: COP 4530</td>
<td>An introduction to the evolution of computer graphics including point-plotting, line drawing, two-dimensional transformations and graphics software packages.</td>
</tr>
<tr>
<td>EEX 4012</td>
<td>Foundations of Special Education (3)</td>
<td></td>
<td>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.</td>
</tr>
<tr>
<td>EEX 4054</td>
<td>Perspectives on Learning and Behavioral Differences (3)</td>
<td>PR: EEX 4012</td>
<td>The purpose of this course is to introduce students to the historical and theoretical perspectives on educating students with learning and behavioral differences, develop a critical understanding of current practices in service delivery systems, and examine professional issues and trends that impact the future of the field.</td>
</tr>
<tr>
<td>EEX 4070</td>
<td>Integrating Exceptional Students in the Regular Classroom (2-3)</td>
<td></td>
<td>Designed for non-special education majors. Includes basic identification techniques and strategies to promote academic and social integration and interaction of &quot;mainstreamed&quot; exceptional students. Concurrent field experience projects are included.</td>
</tr>
</tbody>
</table>
EEX 4202 Context and Foundations (6)
CR: EEX 4942
GCPC
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)
PR: EDF 3214, EDF 4430 and EEX 4012
CR: EEX 4941 and EEX 4894
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)
PR: EEX 4202 with a minimum grade of C-
CR: EEX 4942
GCPC
This course is second in a sequence that focuses on Beginning to Teach in Special Education, allowing teacher candidates to use their understandings to think critically and to solve problems.

EEX 4241 Creating Effective Learning Environments (3)
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 (6)
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)
PR: EEX 4012 or equivalent
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)
PR: EEX 4242, EEX 4942
CR: EEX 4944
6ACT, 6ACT, WRIN
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)
PR: EEX 4012
CR: EEX 4941, ELD 4941, or EMR 4941
Techniques to prevent, analyze, and manage challenging and disruptive classroom behavior as well as teaching social skills.

EEX 4742 Narrative Perspectives on Exceptionality: Cultural and Ethical Issues (3)
6ACP, 6ACT, 6ACT, CPST, ELWP, GCPC, GCPC
This course is designed to offer students a meaningful way to interpret and understand exceptionalities.

EEX 4894 Clinical Teaching in Special Education (3)
Effective teaching principles, instructional management procedures, and specialized teaching techniques for exceptional students.

EEX 4905 Independent Study: Exceptional Student Education (1-3)
Specialized independent study determined by the student's needs and interests.

EEX 4909 Directed Study: Exceptional Student Education (1-3)
To extend competency in teaching field.

EEX 4936 Senior Seminar in Exceptional Student Education (1)
CR: EEX 4940
Synthesis of teacher candidate's courses in complete college program.

EEX 4940 Internship: Exceptional Student Education (1-12)
CR: EEX 4936
One full semester of internship in an accredited public or private school.

EEX 4941 Practicum in Exceptional Student Education (1-4)
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 Education (1-4)
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)
PR: EEX 4942
CR: EEX 4244
The course fulfills the Florida Department of Education, teacher certification requirement for a full-time internship in a K-12 accredited school for Exceptional Student Education Majors only. It is not repeatable.

EEX 5705 Seminar in Preschool Handicapped (2)
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)
PR: Introductory course in special education
The impact of the socio/cultural environment on the education of at-risk children and children with disabilities; family systems theory, principles of multi-cultural education, strategies for working effectively with families of school-age children, diverse cultures and family structures represented in school populations today.

EGI 5051 Nature and Needs of the Gifted (3)
This survey course examines the characteristics and educational needs of children and youth who are gifted, including those from special populations. Emphasis is on giftedness as defined historically, nationally and locally. The course also explores changing views of intelligence and talent development related to policy and practice in gifted education as well as the processes of identification and programming.

EGI 5307 Theory and Development of Creativity (3)
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 1113 Introduction to Design Graphics (3)
An introductory course covering the principles of technical drawing by employing traditional and Computer-Aided-Drafting (CAD) techniques using AutoCAD. Students will also learn to apply these concepts to civil design and engineering plans preparation.

EGN 2080 Light and the Arts: A Quantitative Approach (3)
Physical and aesthetic aspects of light.
Theatrical lighting. Holography.

EGN 2081 Circuit Mathematics and Physics (2)
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 (3)
Highlights of the history of electrotechnology and its relation to the development of civilization. The contributions of Volta, Faraday, Morse, Bell, Hertz, Marconi, Franklin, etc. in the context of the development of western civilization. The impact of communications, electronics and computers in the twenty-first century.

EGN 3000 Foundations of Engineering (0-3)
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 (3)
6ACT, TGEC
Introduction to Engineering and its disciplines incorporating examples of tools and techniques used in design and presentation. Laboratory exercises will include computer tools, engineering design, team projects, and oral and written communication skills.

EGN 3060 Mechatronics for Innovation (3)
PR: MAC 2282 or MAC 2312 or AP68 score of 4
To present mechatronics as the integration of mechanical & electrical systems, electronics, computer software and control systems via multidisciplinary applications while fostering a dialog among artists, STEM educators and engineers to promote innovation.

EGN 3311 Statics (3)
PR: PHY 2048.
Principles of statics, mechanical equilibrium, forces, moments, plane trusses. Lec.-pro.

EGN 3321 Dynamics (3)
PR: EGN 3311
Dynamics of discrete particles; kinematics and kinetics for rigid bodies. Lec.
<table>
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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Prerequisites</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>EGN 3331</td>
<td>Mechanics of Materials (3)</td>
<td>PR: EGN 3311, with a minimum grade of C- Stress, strain, Hooke's Law; torsion, beam, column analysis; combined stresses; inelastic effects, limit design. Lec.</td>
<td></td>
</tr>
<tr>
<td>EGN 3331L</td>
<td>Mechanics of Materials Laboratory (1)</td>
<td>PR: EGN 3311 with a minimum grade of C- CPR: EGN 3331 with a minimum grade of C- Experiments in mechanics of deformable bodies.</td>
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</tr>
<tr>
<td>EGN 3343</td>
<td>Thermodynamics I (3)</td>
<td>PR: PHY 2048, PHY 2049, MAC 2283 or MAC 2313, all with a grade of C or better (not C-) Axiomatic introduction to thermodynamic concepts of energy, entropy, work and heat. Properties of ideal and real substances. Applications: power production and refrigeration, phase equilibria.</td>
<td></td>
</tr>
<tr>
<td>EGN 3365</td>
<td>Materials Engineering I (3)</td>
<td>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.</td>
<td></td>
</tr>
<tr>
<td>EGN 3373</td>
<td>Electrical Systems I (3)</td>
<td>CPR: EGN 3433 with a minimum grade of B or MAP 2302 with a minimum grade of B A first course in electrical systems: AC/DC circuit analysis, electronics (diodes, transistors, operational amplifiers), digital circuits (logic gates, K-maps), control systems concepts (final value theorem), electrical safety, and AC power.</td>
<td></td>
</tr>
<tr>
<td>EGN 3374</td>
<td>Introduction to Electrical Systems II (3)</td>
<td>PR: EGN 3373 CR: MAP 2302 A second course in linear passive circuits (following EGN 3373). An extension of the physical principles and models, AC/DC steady-state, transient analysis and power analysis techniques.</td>
<td></td>
</tr>
<tr>
<td>EGN 3375</td>
<td>Electromechanical Systems (3)</td>
<td>PR: EGN 3374, with a minimum grade of B. Analysis of electromechanical device performance: transformers, transducers, DC motors and generators, AC motors and alternators.</td>
<td></td>
</tr>
<tr>
<td>EGN 3420</td>
<td>Engineering Analysis (4)</td>
<td>PR: MAC 2282 Introduction to fundamentals of functions, matrices, matrix calculations, simultaneous equations, vector space, vector analysis, vector calculus, vector algebra, Laplacian operator, linear transformations, eigenvalues and eigenvectors.</td>
<td></td>
</tr>
<tr>
<td>EGN 3433</td>
<td>Modeling and Analysis of Engineering Systems (3)</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>
<td></td>
</tr>
<tr>
<td>EGN 3443</td>
<td>Probability and Statistics for Engineers (3)</td>
<td>PR: MAC 2282. 6ACT, 6AMT, TGEI An introduction to concepts of probability and statistical analysis with special emphasis on critical interpretation of data, comparing and contrasting claims, critical thinking, problem solving, and writing.</td>
<td></td>
</tr>
<tr>
<td>EGN 3615</td>
<td>Engineering Economics with Social and Global Implications (3)</td>
<td>6ACT, CASB, TGED Presents basic economic models used to evaluate engineering project investments with an understanding of the implications of human and cultural diversity on financial decisions through lectures, problem solving, and critical writing.</td>
<td></td>
</tr>
<tr>
<td>EGN 3940</td>
<td>Professional Engineering Internship (0)</td>
<td>Professional or interdisciplinary work period in engineering or career-related field. Enrollment limited to one semester and/or one summer per academic year. Offered on a S/U basis only. Restricted to engineering majors.</td>
<td></td>
</tr>
<tr>
<td>EGN 4366</td>
<td>Materials Engineering II (3)</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>
<td></td>
</tr>
<tr>
<td>EGN 4450</td>
<td>Introduction to Linear Systems (2)</td>
<td>PR: MAC 2282. Study and application of matrix algebra, differential equations and calculus of finite differences.</td>
<td></td>
</tr>
<tr>
<td>EGN 4453</td>
<td>Numerical &amp; Computer Tools I in Civil &amp; Env Eng (3)</td>
<td>PR: MAC 2281, PHY 2048 Computer basics, computer programming operations, flow charts, developing simple computer programs, vector and matrix algebra, equation solving techniques.</td>
<td></td>
</tr>
</tbody>
</table>
EGN 4454 Numerical & Computer Tools II in Civil & Env Eng (3)  
PR: EGN 4453  
CPR: MAP 2302  
Numerical Methods including numerical integration, root finding, numerical differentiation and integration, eigen-values, and eigen-vectors, data modeling. Development of computer programs to perform these operations.

EGN 4905 Independent Study (1-5)  
Specialized independent study determined by the students’ needs and interests.

EGN 4930 Special Topics in Engineering (0-3)  
New technical topics of interest to engineering students.

EGN 5421 Engineering Applications for Vector Analysis (3)  
Vector methods in electromagnetism and fluid mechanics. Vector operators, line and flux integrals, potential and transport theorems, applications.

EGN 5422 Engineering Applications of Partial Differential Equations (3)  

EGN 5423 Neural Networks and Mathematics for Communication (3)  
Advanced matrix algorithms: LU and QR factorizations, least-squares, pseudoinverse. Techniques for optimization.

EGN 5424 Engineering Applications of Complex Analysis (3)  
Analytic functions, conformal mapping, residue theory, Laurent series, transforms. Applications to various problems in engineering and physics.

EGN 5940 Professional Engineering Internship (0-6)  
Professional or interdisciplinary work period in engineering or career-related field.

EGS 2040 History of Technology (3)  
Covers the evolution of technology and its influence on society from pre-historic man to the modern day. Topics include: seven technological ages of man, methods of producing power, materials, transportation, communication and calculation, and technology and society.

EGS 2070 Professional Formation of Engineers 1 (1)  
Designed with your professional and personal goals in mind, this course will include professional engineering best practices, ethics, and the development of a personal undergraduate career road-map to enhance your future career opportunities.

EGS 3011 Research Design, Methods, & Interpretation (3)  
PR: MAC 1105 with a minimum grade of C or SAT Math with a minimum score of 550 or SAT Math Section with a minimum score of 570 or CPT College Level Math with a minimum score of 60 or ACT Math with a minimum score of 24 or Calculus AB with a minimum score of 3 or MAC 1147 with a minimum grade of C  
This course has primarily been designed to build skills in the area of critical thinking about scientific information, studies, and data. A second component is how to make scientifically sound decisions some of which require the use of basic statistics

EGS 3071 Professional Formation of Engineers 2 (1)  
PR: EGS 2070 with a minimum grade of C  
Introduction to professional careers in technology development, research and academia. Includes Engineering lab tours and guest lectures by Engineering faculty. Students are also introduced to opportunities to expand their fundamental technical skills.

EGS 3072 Professional Formation of Engineers 3 (1)  
PR: EGS 3071 with a minimum grade of C  
Introduction to Engineering Design concepts, Innovation, and Entrepreneurship. Learn the fundamentals of creating great designs, products, and solutions to solve complex engineering problems and meet societal needs.

EGS 3720 Globalization and Technology (3)  
6ACT, CAGC, HHCP, TGED  
This course explores the fundamental processes underlying globalization with particular emphasis on the role of technological development in both historical and contemporary context.

EIN 3241 Ergonomics I (3)  
Using the fundamentals of the design process, this course demonstrates the critical importance of ergonomic tools and underlying physical human capacities.
COURSE DESCRIPTIONS
(AS OF MARCH 1, 2019)

UNIVERSITY OF SOUTH FLORIDA 2019-20 UNDERGRADUATE CATALOG

EIN 4142 Project Management (3)
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.

EIN 4172 ISO 9000/14000 (3)
This course covers analysis of ISO 9000 and ISO 14000 publications with a view towards understanding the documentation process, auditing for registration purposes, and the relationship to the quality systems and programs.

EIN 4173 Quality Management Systems (3)
This course presents the functions and responsibilities of the quality organization. Quality Management Systems concepts and tools for continuous improvement, include Baldrige Criteria, ISO 9000, and 6-Sigma, are analyzed for sequence of use and application.

EIN 4180 Principles of Engineering Management (3)
Emphasis is placed on management practice in an engineering-intensive context. Topics include management theory, planning and control, strategic management, organizing, ethics, leadership, innovation and change, and communication skills.

EIN 4200 Creativity in Technology (3)
This course is designed to aid in re-opening the creativity within ourselves so that each life can be a work of art. Exploration and discovery of the individual’s higher SELF helps to develop their complete potential and creativity in all parts of life.

EIN 4213 Engineering Systems Safety (3)
PR: EGN 3443
This course presents the theory and practical implications of concepts of system safety related to the life cycle of a product/system, analysis of the fundamental concepts, design implications, and specifications of safety in a human machine environment.

EIN 4214 Occupational Safety Engineering (3)
Introduction to the principles of designing, maintaining, and managing a free-hazard workplace, including mechanical, fall/lifting, climate/environmental, electrical, fire, explosive and pressure. Covers design issues, warnings, and personal protective equipment.

EIN 4242 Ergonomics II (3)
PR: EIN 3241
This course applies the concepts of work design and measurements within the ergonomic arena to achieve work design that is ergonomically feasible and effective.

EIN 4243C Human Factors (3)
6ACT, 6ACT
Design of man-machine systems, by taking into consideration both human and machine capabilities and limitations.

EIN 4312C Work Analysis (3)
PR: EGN 3613C or EGN 3615, EGN 3443.
Operation analysis and workspace design, work measurement, standard data, ergonomics, and labor costing.

EIN 4333 Production Control (3)
PR: ESI 4312.
Planning and control of production systems. Includes: forecasting and inventory control models, scheduling and sequencing, MRP, CPM/PERT, and resource requirements.

EIN 4352 Engineering Cost Analysis (3)
PR: EGN 3615.
This is a non-repeatable course restricted to Industrial Engineering majors. It provides students with the principles and techniques for the cost analysis, estimation and evaluation of engineering design in service and manufacturing organizations.

EIN 4364 Facilities Design and Cost Analysis (3)
PR: EIN 4312C
CPR: EIN 4333, ESI 4221
Principles and techniques for the design, modification, cost analysis, and evaluation of service and industrial production facilities.

EIN 4385 Management of Technical Change (3)
In this course we explore how technology changes can impact business, how employees accept changes to benefit the company, and how to gain optimal results from such changes. This course focuses on the tools to achieve successful change.

EIN 4451 Lean Six Sigma (3)
A presentation of lean six sigma, what it is, details of the tools and methodology that comprise it, and how it relates to the business process improvements.

EIN 4453 Advanced Lean Six Sigma (3)
PR: EIN 4451
Advanced Lean Six Sigma expands upon initial exposure to lean six sigma knowledge of available statistical tools and techniques. It carries the service learning designation and includes a compulsory project where learned concepts are applied.

For Current Course Inventory, see https://www.systemacademics.usf.edu/course-inventory/
EIN 4601C Automation and Robotics (3)
PR: EIN 4621.
Introduction to the practices and concepts of automation as applied to material handling, inventory storage, material transfer, industrial processes and quality control.

EIN 4621 Manufacturing Processes (3)
PR: EGS 1113.
The study of basic manufacturing processes and precision assembly. CAD/CAM including NC programming.

EIN 4890 Industrial Engineering Senior Design Project I (3)
PR: EIN 4312C with a minimum grade of C
CPR: EIN 4333 with a minimum grade of C, ESI 4221 with a minimum grade of C
CPST
This is the first of a two-part Senior Design Project course sequence to provide experiential learning opportunities on new product development and tech-based engineering entrepreneurship while integrating industrial engineering concepts.

EIN 4891 Industrial Engineering Senior Design Project II (3)
PR: EIN 4890 with a minimum grade of C
CPST
This is the second of a two-part Senior Design Project course sequence to provide experiential learning opportunities on new product development and tech-based engineering entrepreneurship while integrating industrial engineering concepts.

EIN 4933 Special Topics in Industrial Engineering (1-3)
Special topics related to economic analysis, optimization, human factors, manufacturing and automation aspect of industrial systems. Repeatable up to 5 credit hours.

EIN 5174 Total Quality Management Concepts (3)
This course will examine the methodology and procedures that companies use to improve quality and its operational benefits, including the management transformation (paradigm shift) that is evolving. Unrestricted. Nonrepeatable for credit.

EIN 5182 Principles of Engineering Management (3)
Introduction to the fundamentals of planning, organizing and leadership as needed by engineers, scientists, and other professionals considering managerial positions.

EIN 5201 Creativity in Technology (3)
Designed to aid engineers, and others, re-open the creativity within themselves. It is focused on the student and his/her interests in technology and innovation. Graduate students and senior undergraduates.

EIN 5275 Work Physiology and Biomechanics (3)
Human physiological limitations encountered in design, analysis and evaluation of man-machine systems.

EIN 5350 Technology and Finance (3)
A course for technical managers that focuses on how financial and economic principles are utilized to make technical investments and manage technical enterprises.

EIN 5452 Engineering a Lean Enterprise (3)
Engineering the Lean Enterprise introduces you to one of the most successful strategies in operations: lean manufacturing, as seen at Toyota and other companies. Lean manufacturing is a philosophy that applies both on and off the factory floor.

EIN 5510 Manufacturing Systems Analysis (3)
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.

EMA 4003 Introduction to Materials Science (3)
PR: CHM 2046 with a minimum grade of C or Chemistry with a minimum score of 5
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.

EMA 4324 Corrosion of Engineering Materials I (3)
Principles of electrochemical corrosion and the representation of corrosion processes by polarization diagrams. Origin and prevention of the localized forms of corrosion and approaches to corrosion control.

EMA 5326 Corrosion Control (3)
PR: EGN 3365.
Provide understanding of corrosion fundamentals. Introduce design for corrosion detection, protection, and control. Acquire research project experience.

EME 2040 Technology for Leading and Learning (3)
6ACT, SMSS, TGEC
Designed as an introduction to technology and its role in communication, presentation, & learning processes. Topics include productivity software, ethical & social issues, mobile apps, interactive multimedia, and models for tech integration/usage.

For Current Course Inventory, see https://www.systemacademics.usf.edu/course-inventory/
EME 5317 Technology Leadership in Education (3)
Selecting, organizing, and using major types of instructional technology and equipment in various school curricula and educational programs. Explores the transformational power of emerging technologies in schools.

EME 5403 Computers in Education (3)
A survey course designed to introduce practicing teachers to microcomputer technology and its function in the classroom to augment the teaching and learning processes. Objectives include the use and evaluation of educational software, classroom use of computers, instructional computing research, generic applications software (word processors, database managers, etc.), programming, disk operating systems, and microcomputer hardware.

EML 3022 Computer Aided Design and Engineering (3)
This course is intended for developing graphics design concepts in undergraduate students. Learning engineering drawing fundamentals, design views, design and analysis of mechanical engineering power transmission components using computer aided software.

EML 3035 Programming Concepts for Mechanical Engineers (2)
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.

EML 3041 Computational Methods (3)
PR: MAP 2302 with a minimum grade of C- or EGN 3433 with a minimum grade of C- and EML 3035 with a minimum grade of C- and EGN 3343 with a minimum grade of C and EML 3500 with a minimum grade of C
Techniques to solving engineering problems using numerical methods. Topics include roots of equations, matrix algebra, simultaneous linear equations, numerical integration and differentiation, and curve fitting.

EML 3262 Kinematics and Dynamics of Machinery (3)
PR: EGN 3321, EML 3022, both courses with a minimum grade of C-; and EGN 3343, EML 3500, both courses with a minimum grade of C
Kinematics of machines and mechanisms; position, velocity, and acceleration analysis of mechanisms; cams; gear trains; inertia forces in mechanisms; flywheels; balancing of rotating masses.

EML 3303 Mechanical Engineering Lab I (3)
PR: EGN 3443
CR: EML 3701, EML 3500

EML 3500 Mechanics of Solids (3)
PR: EGN 3311
Stress and deflection analysis of machine parts, variable loads, endurance limits, fasteners, bearings, power transmission, code consideration of pressure and vacuum vessels, elements of design.

EML 3701 Fluid Systems (3)
PR: EGN 3343 (with a minimum grade of C), EGN 3321 (with a minimum grade of C-)
Principles of fluid flow; piping and duct systems; fluid machinery; metering of compressible and incompressible flow; boundary layer theory; dimensional analysis; introduction to aerodynamics.

EML 4106C Thermal Systems and Economics (3)
PR: EGN 3343 and EML 3500, both courses with a minimum grade of C
Power and refrigeration cycles; fuels and combustion; internal combustion engine cycles; co-generation; nuclear energy; methods of economic analysis.

EML 4123 Heat Transfer (3)
PR: EML 3701, EML 3041
Conduction, convection and radiant heat transfer; thermal properties of materials; role of fluid flow in convective heat transfer; design and selection of heat exchangers.

EML 4141 Thermal Management of Electronic Systems (3)
PR: EML 4123
Introduction to principles of thermal management for controlling heat dissipation in electronic systems. Passive & active thermal management techniques for electronic systems & components are considered with regard to fundamental heat transfer modes.

EML 4220 Vibrations (3)
PR: EML 3262, EML 3041 (Grade of C- required)

For Current Course Inventory, see https://www.systemacademics.usf.edu/course-inventory/
EML 4230 Introduction to Composite Materials (3)
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)
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 4284 Compliant Mechanisms (3)
PR: EML 3262
This course presents methods for the design of compliant mechanisms, mechanisms that gain some or all of their motion from the deflection of flexible members. The course treats mechanism analysis, synthesis, and design applications.

EML 4302 Mechanical Engineering Laboratory II (3)
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)
CR: EML 4312.
To introduce students to microcontroller technology, and to provide them with an understanding of the concepts and principles used to interface input and output devices to microcontrollers, program microcontrollers, and to develop applications.

EML 4312 Mechanical Controls (3)
PR: EGN 3321, EGN 3373.

EML 4325 Mechanical Manufacturing Processes (3)
PR: EGN 3365 with a minimum grade of C- and EGN 3343 and EML 3500 both with a minimum grade of C
Description of mechanical material cutting, forming and fabrication methods, as used in modern industrial manufacturing processes.

EML 4326 Advanced Materials Processing (3)
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)
PR: ENG 3373
Standard electrical voltages; power wiring in industrial plants; NEMA motor designs and their uses; techniques for estimating motor starting times and temperature rise; motor selection, starting, and operating safety interlocks; conventional starting and control systems; programmable controllers; electrical code requirements for conductors and protective devices.

EML 4414 Power Plant Engineering (3)
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)
PR: EML 3701, EML 3500
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)
PR: EGN 3343 and EML 3500, both courses with a minimum grade of C
This course is for the application of thermodynamics, chemistry, dynamics of machinery, electronics and fluid mechanics. Topics covered are: introduction of engines, fuels and combustion, numerical modeling, ignition, fuel systems, balance of reciprocating mechanisms and emission control of exhaust pollutants.

EML 4450 Alternative & Renewable Energy (3)
PR: EML 3500 and EGN 3343
An overview of energy conversion for electrical power generation and transportation, both conventional and sustainable. The course is aimed at mechanical engineering seniors and includes hands-on design projects.
### EML 4501 Machine Design (3)
**PR:** EML 3500 with a minimum grade of C and EML 3022 and EML 3262 both with a minimum grade of C.

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)
**PR:** EML 4501

This course integrates sustainability into the design of engineered products. Topics include materials selection and performance, design for the 4 Rs, end-of-life concerns and product life cycle assessment methods.

### EML 4536 Applied Finite Element Analysis (3)
**PR:** EML 3022 with a minimum grade of C-, EML 3500 with a minimum grade of C

Theory & practical applications of Finite Element method, Matrix methods, Linear and non-linear structural analysis of beams, frames, trusses and three-dimensional machine components/assemblies. Buckling and modal analysis. ANSYS/Solidworks simulations.

### EML 4551 Capstone Design (3)
**PR:** EML 4501 (minimum grade: C-), and EML 4106C (minimum grade: C-), and EML 3701 (minimum grade: C-)

Combines design or feasibility project that requires the application of knowledge acquired in previous courses; use of ANSYS, CAD AND Pro/E.

### EML 4552 Senior Mechanical Design (3)

Comprehensive design or feasibility study project. In some cases may be a continuation of EML 4551.

### EML 4575 Principles of Fracture Mechanics (3)
**PR:** EML 3500, EGN 3343

Introduction to fracture and fracture of linear and nonlinear engineering materials, as well as designing against fracture in modern materials.

### EML 4593 Haptics (3)
**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)
**PR:** EGN 3343 and EML 3500, both courses with a minimum grade of C

Application of thermodynamics, heat transfer, and fluid flow to sizing of HVAC systems. Heating and cooling calculations, air requirements, equipment sizing. Energy Code requirements. Design project.

### EML 4702 Fluid Dynamics II (3)
**PR:** EGN 3343, EGN 3321 and EML 3701

The Fluid Dynamics II course is a senior level technical elective for Mechanical Engineering Students. The goal of the course is develop an advanced understanding of fluid dynamics applied to mechanical engineering as well as to other related fields.

### EML 4703 Mechanics of Compressible Fluids (3)
**PR:** EML 3701, EGN 3343

Introduction to kinetic theory of gases, compressible flow equations, isentropic flow, flow with friction and heat transfer, compression and expansion in supersonic flow, normal and oblique shock waves and Prandtl-Meyer expansions.

### EML 4905 Independent Study (1-4)

Specialized independent study determined by the student's needs and interests.

### EML 4930 Special Topics in Mechanical Engineering (1-3)

### EMR 4011 Mental Retardation and Developmental Disabilities (3)
**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.

### ENC 1101 Composition I (3)

6ACM, 6ACP, 6ACT, 6ACT, CAEC, HHCP, SGEC, SMCO, SPCO

This course helps prepare students for academic work by emphasizing expository writing, the basics of library research, and the conventions of academic discourse.

### ENC 1102 Composition II (3)
**PR:** ENC 1101 (or the equivalent, i.e. passing the CLEP exam).

6ACM, 6ACP, 6ACT, 6ACT, CAEC, SMCO, SPCO, TGEN

This course emphasizes argument, research, and style. As students engage in creative and critical thinking, they learn to support assertions based on audience and purpose; students apply library research, strategies for revision, and peer response.
ENC 1130 Improving College-Level Writing (3)
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 (3)
PR: ENC 1101 and ENC 1102 or ENC 1121 and ENC 1122.
6ACM, 6ACP, 6ACT, 6ACT, SMEL
Effective presentation of technical and semi-technical information. Will not count toward the English major.

ENC 3242 Technical Communication for Majors (3)
PR: ENC 1101 & 1102 or ENC 1121 & 1122.
SMLE
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 (3)
6ACT, 6ACT, WRIN
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 (3)
PR: ENC 1101 and ENC 1102 or Honors English.
6ACT, 6ACT, WRIN
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 (3)
PR: ENC 1101 and ENC 1102 or ENC 1121 and ENC 1122.
6ACP, 6ACT, 6ACT, WRIN
The course is an introduction to the techniques and types of professional writing, including correspondence and reports. It is designed to help strengthen skills of effective business and professional communication in both oral and written modes.

ENC 3310 Expository Writing (3)
PR: ENC 1101 and ENC 1102 or ENC 1121 and ENC 1122.
6ACP, 6ACT, 6ACT, SMCD, WRIN
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 3371 Rhetorical Theory for Technical Communication (3)
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 3416 New Media for Technical Communication (3)
PR: ENC 1101 and ENC 1102 or ENC 1121 and ENC 1122.
The study and production of digital media with special emphasis on emergent and evolving applications.

ENC 3435 Rhetoric and Gaming (3)
This course applies different theoretical lens to broaden studentsâ€™ understandings of videogames. Students familiarize themselves with the major genres of writing predominant in the videogame industry. Students work together to design and implement a game.

ENC 4218 Visual Rhetoric for Technical Communication (3)
PR: ENC 1101 and ENC 1102 or ENC 1121 and ENC 1122.
The study and production of visual rhetoric with special emphasis on print and digital document design and technical graphics.

ENC 4260 Advanced Technical Writing (3)
PR: ENC 2210, or ENC 3310
Advanced Technical Writing is a course designed to develop writing skills of a high order: technical exposition; technical narration, description, and argumentation; graphics; proposals; progress reports; physical research reports; and feasibility reports.

ENC 4311 Advanced Composition (3)
PR: ENC 3310
Instruction and practice in writing effective, lucid, and compelling prose, with special emphasis on style, logical argumentation, and critical thinking.

ENC 4931 Selected Topics in Professional and Technical Writing (3)
PR: ENC 3250, ENC 2210, or ENC 3310
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.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Prerequisites</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENC 4940</td>
<td>Professional/Technical Communications Internship (3)</td>
<td></td>
<td>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>
</tr>
<tr>
<td>ENG 3014</td>
<td>Introduction to Literary Methodology (3)</td>
<td>ENC 1101 and ENC 1102</td>
<td>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>
</tr>
<tr>
<td>ENG 3113</td>
<td>Film as Narrative Art (3)</td>
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<td>This course will examine the role of narrative as it appears in national and international cinema and study different theoretical and historical perspectives of cinematic narrative and cinematic techniques and interpretation.</td>
</tr>
<tr>
<td>ENG 3674</td>
<td>Film and Culture (3)</td>
<td>6ACT, 6ACT, CPST, TGEC, WRIN</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>ENG 4013</td>
<td>Literary Criticism (3)</td>
<td></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>
</tr>
<tr>
<td>ENG 4060</td>
<td>History of the English Language (3)</td>
<td></td>
<td>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.</td>
</tr>
<tr>
<td>ENG 4818</td>
<td>Feminist Digital Humanities (3)</td>
<td></td>
<td>A study of the foundational concepts and analytical tools of feminist digital humanities. Students will read feminist authors and literature within a digital humanities framework and conduct digital humanities projects.</td>
</tr>
<tr>
<td>ENG 4906</td>
<td>Individual Research (1-4)</td>
<td></td>
<td>Directed study in special projects.</td>
</tr>
<tr>
<td>ENG 4907</td>
<td>Directed Reading (3)</td>
<td></td>
<td>Readings in special topics.</td>
</tr>
<tr>
<td>ENG 4935</td>
<td>Honors Seminar I (3)</td>
<td>ENG 4936.</td>
<td>Variable topics. Students will be expected to participate in class discussion, make formal presentations, and complete a major research project.</td>
</tr>
<tr>
<td>ENG 4936</td>
<td>Honors Seminar II (3)</td>
<td>ENG 4935</td>
<td>Variable topics. Students will be expected to participate in class discussion, make formal presentations, and complete a major research project.</td>
</tr>
<tr>
<td>ENG 4955</td>
<td>English Studies Abroad (1-6)</td>
<td>GCPC, GCPC</td>
<td>The study of English abroad. Readings and topics vary but will reflect the location of the course. How knowledge of a place shapes reading practices and how writing invests physical locations with significance and meaning.</td>
</tr>
<tr>
<td>ENG 4970</td>
<td>Honors Thesis (3)</td>
<td>ENG 4935, ENG 4936</td>
<td>For students writing English Honors theses.</td>
</tr>
<tr>
<td>ENL 3015</td>
<td>British Literature to 1616 (3)</td>
<td></td>
<td>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.</td>
</tr>
<tr>
<td>ENL 3016</td>
<td>Studies in 17th and 18th Century British Literature (3)</td>
<td></td>
<td>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.</td>
</tr>
<tr>
<td>ENL 3017</td>
<td>Studies in 19th Century British Literature (3)</td>
<td></td>
<td>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.</td>
</tr>
<tr>
<td>ENL 3026</td>
<td>Studies in Twentieth-Century Literature (3)</td>
<td></td>
<td>This is a topics course focusing on Twentieth-Century Literature (British; American; and/or World). It satisfies a historical distribution requirement for the English major, literature track, and may be taken more than once for credit.</td>
</tr>
<tr>
<td>ENL 3230</td>
<td>British Literature 1616-1780 (3)</td>
<td></td>
<td>A survey of 17th Century and Neoclassical Literature, including such figures as Donne, Herbert, Crashaw, Vaughan, Marvell, Milton, Pope, Swift, Johnson, Boswell, and Goldsmith.</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Description</td>
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</tr>
<tr>
<td>ENL 3251</td>
<td>British Literature 1780-1900 (3)</td>
<td>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.</td>
<td></td>
</tr>
<tr>
<td>ENL 3273</td>
<td>British Literature 1900-1945 (3)</td>
<td>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.</td>
<td></td>
</tr>
<tr>
<td>ENL 3331</td>
<td>Early Shakespeare (3)</td>
<td>A study of from five to eight of Shakespeare’s comedies, histories, and early tragedies, ending with &lt;i&gt;Hamlet&lt;/i&gt;. Special attention to developing the student’s ability to read and interpret the text.</td>
<td></td>
</tr>
<tr>
<td>ENL 3332</td>
<td>Late Shakespeare (3)</td>
<td>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.</td>
<td></td>
</tr>
<tr>
<td>ENL 3334</td>
<td>Shakespeare from an Historical Perspective (3)</td>
<td>6ACT, 6ACT, CAHU, HHCP 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.</td>
<td></td>
</tr>
<tr>
<td>ENL 4112</td>
<td>Eighteenth-Century British Novel (3)</td>
<td>This course studies exemplary British novels from the eighteenth century, the distinctive literary features of the novel in this formative period, and the critical questions surrounding the emergence of this genre.</td>
<td></td>
</tr>
<tr>
<td>ENL 4122</td>
<td>19th Century British Novel (3)</td>
<td>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.</td>
<td></td>
</tr>
<tr>
<td>ENL 4132</td>
<td>British Novel: Conrad to the Present (3)</td>
<td>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.</td>
<td></td>
</tr>
<tr>
<td>ENL 4203</td>
<td>Introduction to Old English (3)</td>
<td>This course will give students a reading knowledge of the Old English language and introduce them to its literature.</td>
<td></td>
</tr>
<tr>
<td>ENL 4303</td>
<td>Selected British Authors (3)</td>
<td>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.</td>
<td></td>
</tr>
<tr>
<td>ENL 4311</td>
<td>Chaucer (3)</td>
<td>An intensive study of &lt;i&gt;The Canterbury Tales&lt;/i&gt; and major critical concerns.</td>
<td></td>
</tr>
<tr>
<td>ENL 4338</td>
<td>Advanced Studies in Shakespeare (3)</td>
<td>PR: ENL 3331 or ENL 3332 Intensive study of selected plays of Shakespeare, with special attention to significant critical issues and to the Elizabethan and Jacobean cultural setting.</td>
<td></td>
</tr>
<tr>
<td>ENL 4341</td>
<td>Milton (3)</td>
<td>Study of the poetry and major prose of John Milton, with special emphasis on &lt;i&gt;Paradise Lost&lt;/i&gt;.</td>
<td></td>
</tr>
<tr>
<td>ENL 4501</td>
<td>Studies in Medieval and Early Modern Literature (3)</td>
<td>This course will examine specific eras, genres, and authors within medieval and early modern literature.</td>
<td></td>
</tr>
<tr>
<td>ENT 3003</td>
<td>Principles of Business in Entrepreneurship (3)</td>
<td>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.</td>
<td></td>
</tr>
<tr>
<td>ENT 4014</td>
<td>New Venture Formation (3)</td>
<td>PR: ENT 3003 or (MAN 3025 and ACG 2021) 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.</td>
<td></td>
</tr>
<tr>
<td>ENT 4024</td>
<td>Small Business Management - Entrepreneurship (3)</td>
<td>Study the factors involved in starting and managing a small to medium sized company. Emphasis on conduct of pre-business feasibility, start-up of business, successful management of firm, and options for succession or termination.</td>
<td></td>
</tr>
<tr>
<td>ENT 4424</td>
<td>Fundamentals of Venture Capital and Private Equity (3)</td>
<td>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.</td>
<td></td>
</tr>
</tbody>
</table>
ENV 2073 Global Warming: Science and Politics of a Contemporary Issue (3)
CANP
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)
CR: EGN 3353
GCPC, GCPC
Introduction to environmental engineering. Protection of human health, air, water, and land resources. Sustainable design, water quality, solid and hazardous waste management, air quality control, contaminated environments. Application of mass balances.

ENV 4004L Environmental Engineering Lab (1)
PR: EGN 3353 with a minimum grade of C-
CPR: ENV 4001 with a minimum grade of C-
Laboratory experience in the measuring of environmental engineering parameters.

ENV 4071 Environmental Site Assessment (3)
PR: CHM 2045 with a minimum grade of C- or CHS 2440 with a minimum grade of C
All of the fundamental elements of environmental site assessments, including a review of pertinent laws and regulations, the process of interviews, file reviews, and the site reconnaissance, through the use of procedures based on the Scientific Method.

ENV 4082 Environmental Field Sampling (3)
PR: CHM 2045 with a minimum grade of C- or CHS 2440 with a minimum grade of C
This course is designed to provide students with an interest in the field of environmental science/engineering, with the highest level of practical, hands-on environmental field training to help them advance their careers.

ENV 4351 Solid Waste Engineering (2)
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)
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)
PR: ENV 4001, ENV 4417
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 absorption, 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 4612 Green Engineering for Sustainability (3)
Offers an overview of principles of green engineering including innovation, inherency, interdisciplinary, integration, and international, with an emphasis on applications of green engineering principles in different design stages.

ENV 5103 Air Pollution Control (3)
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)
PR: ENV 5345 and one of the following: ENV 6347, ENV 6519, ENV 6558;
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)
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)
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.

ENY 3004C Introduction to Entomology (4)
An introduction to general aspects of insect morphology, development, and classification. The identification of local forms will be emphasized. Fieldwork required. Lecture and Laboratory.

ENY 5505C Aquatic Entomology (4)
PR: ENY 3004C and CHM 2210 and MAC 1105 or higher-level MAC course
CPR: 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)
PR: EEX 4012
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)
PR: EPD 5051.
Educational management of students with cerebral palsy, motor disabilities and multihandicapped conditions including rehabilitation and other community services.

ESC 2000 Introduction to Earth Science (3)
CANP, SGEN, SPNS
An introductory course in the Earth Sciences. Topics covered include geology, weather, climate change, ocean dynamics, and the history of the Earth, the solar system and beyond

ESC 3210 Earth and Space Science Fundamentals (4)
This course is designed to further develop science teachers’ understanding of the earth and space sciences commonly found in 6-9 school curricula, with a focus on effective earth and space sciences pedagogy and instructional practice.

ESC 4705 Geology and Development of Modern Africa (3)
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, rifts and hominid evolution, and mining and politics.

ESE 4322 Classroom Management for Diverse School and Society (3)
Focuses on classroom management in secondary schools including classroom climate, specific strategies to address management issues, school safety, violence, diversity, ethics, and educational law.

ESE 5342 Teaching the Adolescent Learner (3)
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)
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 4007 Engineering Programming (3)
PR: MAC 2281, with a minimum grade of C (C- not accepted).
A problem based approach to describing programming concepts using Visual Basic for Applications and MS Excel.

ESI 4221 Statistical Quality Control (3)
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)
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)
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)
PR: COP 2510, EGN 3443.
Probabilistic models in Operations Research. Discrete and continuous time processes, queuing models, inventory models, simulation models, Markovian decision process and decision analysis.

ESI 4326 Engineering the Supply Chain (3)
Students learn tools to design supply chain networks considering all drivers including: facilities, transportation, inventory, information, sourcing and pricing, as well as techniques to support design, planning and operational decisions in the supply chain.

ESI 4523 Systems Simulation (3)
PR: ESI 4313.
A study of the development and analysis of computer simulation models: Monte Carlo, time-slice, and next-event. Introduction to special purpose simulation languages.

ESI 4606 Engineering Analytics I (3)
PR: EGN 3443, ESI 4312.
Engineering Analytics I covers the leading techniques that help to identify and manage key data from business processes. Topics covered include techniques for understanding the meaning of data: cleaning up data; transforming data into information.

ESI 4607 Engineering Analytics II (3)
PR: ESI 4606.
Engineering Analytics II covers important techniques that help to identify and manage key data from industrial engineering processes. Topics covered include data exploration; date visualization; and large-scale engineering system decomposition.

ESI 4620 Design of Industrial Information Systems (3)
PR: EGN 3443 and ESI 2009 or COP 2510, or equivalent.
The objective of this course is to introduce students to the design and implementation of information systems, with special emphasis on the integration of information flows and databases with the control of manufacturing and service type systems.

ESI 4905 Independent Study (1-5)
Specialized independent study determined by the student's needs and interests.

ESI 5219 Statistical Methods For Engineering Managers (3)
Study of statistical methods applied to engineering management problems involving estimation and prediction under conditions of uncertainty.

ESI 5236 Reliability Engineering (3)
PR: ESI 5219 or equiv., EGN 3443 or equivalent.

ESI 5306 Operations Research For Engineering Management (3)
PR: ESI 5219 or equiv.
Linear programming, non-linear programming, queuing, inventory, network analysis.

ESI 5522 Computer Simulation (3)
PR: ESI 4521 or equiv
Design of discrete and continuous simulation models. Model validation and verification. Statistical analysis of simulation model output.

ETG 3612 Operations Management (3)
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 (1-3)
Topics to be chosen by students and instructor permitting newly developing subdisciplinary special interests to be explored.

ETG 3933 Selected Topics in Technology (1-3)
Selected Topics in Technology I is repeatable for 12 credit hours.

ETG 3934 Selected Topics in Technology II (1-3)
Selected Topics in Technology II is repeatable for 12 credit hours.

ETG 4930 Special Topics in Information Technology (1-3)
Topics to be chosen by students and instructor permitting newly developing subdisciplinary special interests to be explored.

ETG 4931 Special Topics in Technology I (1-3)
Special Topics in Technology.

ETG 4932 Special Topics in Technology II (1-3)
Special Topics in Technology.

ETI 4116 Industrial Quality Control (3)
PR: STA 2023
This course teaches the students the fundamental concepts of managing a quality assurance system.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>EUH 2011</td>
<td>Ancient History I (3)</td>
<td>CAHU, HHCP</td>
<td>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.</td>
</tr>
<tr>
<td>EUH 2012</td>
<td>Ancient History II (3)</td>
<td>CAHU, HHCP, SMEL, SMSS</td>
<td>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.</td>
</tr>
<tr>
<td>EUH 2021</td>
<td>Byzantine Empire (3)</td>
<td>CAHU, HHCP</td>
<td>A thematic survey of the history of the medieval Byzantine Empire and neighboring civilizations from ca. 284-1453.</td>
</tr>
<tr>
<td>EUH 2022</td>
<td>The Medieval West (3)</td>
<td>CAHU, HHCP</td>
<td>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.</td>
</tr>
<tr>
<td>EUH 2030</td>
<td>Modern European History I (3)</td>
<td>CAHU, HHCP</td>
<td>A thematic survey of Europe in the modern age. EUH 2030 treats the period from the Renaissance to the French Revolution.</td>
</tr>
<tr>
<td>EUH 2031</td>
<td>Modern European History II (3)</td>
<td>CAHU, HHCP</td>
<td>This course explores the social, political and economic forces which have shaped Europe over the past two hundred and fifty years.</td>
</tr>
<tr>
<td>EUH 3124</td>
<td>Early Crusades (3)</td>
<td>CAHU, HHCP</td>
<td>The Early Crusades course will cover the period between the call of the First Crusade in 1095 AD until the fall of the Crusader Kingdom of Jerusalem in 1291.</td>
</tr>
<tr>
<td>EUH 3129</td>
<td>Medieval Warfare (3)</td>
<td>CAHU, HHCP</td>
<td>A survey of medieval warfare in Europe and Western Eurasia from 500-1500. This course examines major issues in medieval political, social, and economic history through the lens of conflict.</td>
</tr>
<tr>
<td>EUH 3142</td>
<td>Renaissance and Reformation (3)</td>
<td>CAHU, HHCP</td>
<td>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.</td>
</tr>
<tr>
<td>EUH 3181</td>
<td>Medieval Culture (3)</td>
<td>GCPC, GCPC</td>
<td>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.</td>
</tr>
<tr>
<td>EUH 3185</td>
<td>Viking History (3)</td>
<td>CAHU, HHCP</td>
<td>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.</td>
</tr>
<tr>
<td>EUH 3188</td>
<td>Medieval Society (3)</td>
<td>CAHU, HHCP</td>
<td>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.</td>
</tr>
<tr>
<td>EUH 3189</td>
<td>Medieval Politics (3)</td>
<td>CAHU, HHCP</td>
<td>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.</td>
</tr>
<tr>
<td>EUH 3202</td>
<td>History of 17th and 18th Century Europe (3)</td>
<td>CAHU, HHCP</td>
<td>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.</td>
</tr>
<tr>
<td>EUH 3205</td>
<td>History of Nineteenth Century Europe (3)</td>
<td>CAHU, HHCP</td>
<td>A comparative study of economic, political, social, and intellectual developments in nineteenth century Europe.</td>
</tr>
<tr>
<td>EUH 3206</td>
<td>History of Twentieth Century Europe (3)</td>
<td>CAHU, HHCP</td>
<td>A comparative study of economic, political, social, and intellectual developments in twentieth century Europe.</td>
</tr>
<tr>
<td>EUH 3401</td>
<td>Classical Greece (3)</td>
<td>CAHU, HHCP</td>
<td>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.</td>
</tr>
<tr>
<td>EUH 3402</td>
<td>Age of Alexander (3)</td>
<td>CAHU, HHCP</td>
<td>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.</td>
</tr>
</tbody>
</table>
EUH 3412 Roman Republic (3)
A study of the Roman Republic from 509 B.C. to the assassination of Julius Caesar in 44 B.C., with a prelude treating Rome's early development under royal rule. Political growth and change provide the framework for the treatment.

EUH 3413 Roman Empire (3)
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 3451 Modern France and its Empire (3)
This course is a survey of the history of France and its empire from the eighteenth-century Age of Revolutions until the present.

EUH 3462 German History 1870 to the Present (3)
A political, social, and cultural approach to the history of the German Empire from 1870 through the 1970's. The nation's two attempts to try for world power status are highlighted, as well as the Weimar Republic, prototype of the embattled democracy.

EUH 3501 British History to 1688 (3)
A study of major developments in British history from the 15th century to 1688.

EUH 3502 British History 1688 to Present (3)
A study of the major themes of British history since the Glorious Revolution, including social, political, and economic developments leading to the creation of the modern demographic welfare state.

EUH 3533 Celtic History (3)
This course will cover the history of the Celtic peoples in the Iron Age, the Roman period, and the early histories of Ireland, Scotland, and Wales in the medieval period.

EUH 3575 History of Imperial Russia, 1689-1917 (3)
A survey of social, political, economic, and cultural development in the Russian Empire from Peter the Great to Nicholas II. Topics include the expansion and modernization of the Empire, the culture of the Imperial court, peasant rebellions, social and legal reforms, the role of the West, and the collapse of the Romanov dynasty.

EUH 3576 History of the Soviet Union, 1917-1991 (3)
GCPC, GCPC
A study of Soviet society under communism from the Revolution to the collapse of the USSR. Topics include the origins and development of revolutionary socialism, the Bolshevik seizure of power, Stalinism and the Great Terror, popular dissent and resistance, the treatment and experience of ethnic minorities, Gorbachev and the dissolution of the Soviet Union.

EUH 3676 Early Christians, Pagans, and Heretics (3)
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 (3)
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 (3)
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 2001L Environmental Science Lab (1)
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 2217 Energy, Environment and Sustainability (3)
PR: MAC 1105 SPNS
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)
An introduction to environmental policy using class lectures, student projects, and independent readings. Emphasis will be placed on understanding basic policy mechanisms and major policy actions relating to environmental issues at the local, national and international level.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Prerequisites</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>EVR 3218</td>
<td>Wildlife Research Techniques (3)</td>
<td>6ACT, TGEC</td>
<td>This course will review the ways in which data are collected, analyzed, and reported, so that informed decisions about wildlife management and conservation can be made.</td>
</tr>
<tr>
<td>EVR 4027</td>
<td>Wetland Environments (3)</td>
<td>CPST, EMWP</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 4033</td>
<td>Environmental Regulation (3)</td>
<td>PR: EVR 2861</td>
<td>An in-depth review of the federal environmental regulatory structure of the United States, governing air and water quality, waste disposal, safety, and natural resource use and conservation.</td>
</tr>
<tr>
<td>EVR 4051</td>
<td>Environmental Field Methods (3)</td>
<td>PR: STA 2023  or QMB 2100</td>
<td>This course will provide an overview of aspects of conducting environmental research, field experience, the critical analysis of environmental data, and learning the fundamentals of producing a scientifically sound report.</td>
</tr>
<tr>
<td>EVR 4104</td>
<td>Karst Environments (3)</td>
<td>PR: EVR 2001</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 (3)</td>
<td>PR: EVR 2001</td>
<td>6ACT, CPST, TGEC</td>
</tr>
<tr>
<td>EVR 4163</td>
<td>Forest Ecology and Management (3)</td>
<td>PR: EVR 2001  or BSC 2010 or BSC 2011</td>
<td>This course provides instruction on the theories and techniques of forest ecology and management. Topics include: forest ecology, silviculture, forest health, dendrology, and forest measurements.</td>
</tr>
<tr>
<td>EVR 4807</td>
<td>Sustainable Healthy Environments (3)</td>
<td></td>
<td>This course examines the human health impacts of our daily activities in a modern world, with a focus on more sustainable options for improving human health.</td>
</tr>
<tr>
<td>EVR 4900</td>
<td>Directed Readings (1-6)</td>
<td></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 (1-6)</td>
<td></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 (3-12)</td>
<td></td>
<td>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 (1)</td>
<td></td>
<td>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 (1-3)</td>
<td></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 (3-12)</td>
<td></td>
<td>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 4651</td>
<td>Equity in Schools and the Workplace (3)</td>
<td>6ACT, 6ACT, CPST, TGED</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 change.</td>
</tr>
<tr>
<td>EVT 4940</td>
<td>Internship: Industrial-Technical Education (1-12)</td>
<td>CR: EVT 4936</td>
<td>One full semester of internship in a public or private school. In special programs where the intern experience is distributed over two or more semesters, students will be registered for credit which accumulates from 9-12 semester hours.</td>
</tr>
<tr>
<td>EVT 4946</td>
<td>Supervised Field Experience: Industrial-Technical Education (1-6)</td>
<td></td>
<td>Planned supervised functions in the area of specialization and coordinated with selected schools, government, offices, social agencies, businesses and industries on site.</td>
</tr>
</tbody>
</table>

For Current Course Inventory, see [https://www.systemacademics.usf.edu/course-inventory/](https://www.systemacademics.usf.edu/course-inventory/)
EXP 4104 Sensory Processes (3)
PR: PSY 3213 with a grade of C or better
Available to both majors and non-majors.
Psychophysical and neurophysiological data and
theory underlying sensory processes. Visual,
auditory, chemical, and somatosensory systems,
with particular emphasis on visual processes.

EXP 4204C Perception (3)
PR: PSY 3213 with a grade of C or better
Topics include sensory and physiological bases of
perception and how people process relevant
information in their environments.

EXP 4304 Motivation (3)
PR: PSY 3213 with a grade of C or better
A survey of motivational processes and
mechanisms from physiological and psychological
viewpoints.

EXP 4404 Psychology of Learning (3)
PR: PSY 3213 with a grade of C or better
Survey of methods, empirical findings, and
theoretical interpretations in conditioning and
instrumental learning.

EXP 4640 Psychology of Language (3)
PR: PSY 3213
Historical survey of relations between psychology
and linguistics leading to the emergence of
psycholinguistics as a field of study. The current
status of theory and research in the field will be
covered.

EXP 4680C Cognitive Psychology (3)
PR: PSY 3213 with a grade of C or better
Survey of methods, empirical findings, and
theoretical interpretations of human learning,
information processing, verbal learning, and
judgment and decision-making.

FIL 1002 Introduction to Film Studies (3)
6ACM, CAHU, HHCP, SMHU
Students will be introduced to key concepts and
techniques of Film Studies, including the history of
film; an examination of film genres; an overview of
foreign cinema; and the study of issues of class,
race, gender, and sexuality.

FIL 3011 The Film As Mass Com II: Rhetor & Stylis
(3)
A continuation of FIL 3004 to include the effective
arrangements of scenes and sequences in motion
picture and television films.

FIL 3052 Foundations of Film & New Media (3)
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.
<table>
<thead>
<tr>
<th>COURSE DESCRIPTIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>FIN 3144 Financial Planning Fundamentals (3)</strong></td>
</tr>
<tr>
<td>PR: FIN 3403 with a minimum grade of C</td>
</tr>
<tr>
<td>This course is an overview of the problems and techniques of personal, financial planning. It includes: consumer credit, insurance, taxes, home ownership, personal investment, managing cash income, controlling expenditures and estate planning.</td>
</tr>
</tbody>
</table>

| **FIN 3233 Money and Banking (3)** |
| 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)** |
| 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)** |
| PR: FIN 3403 with a minimum grade of C GCPC, GCPC |
| Study of factors affecting international business, assessment of risks, international managerial finance, institutions and instruments of international business finance. |

| **FIN 4128 Personal Financial Planning Process and Development (3)** |
| PR: FIN 4504 with a minimum grade of C RMI 4135 with a minimum grade of C CR: FIN 4132 |
| This course is a major capstone class that examines professional issues in financial planning, including: ethical considerations; regulation and certification requirements; written and oral communication skills; and professional responsibility. |

| **FIN 4132 Estate Planning (3)** |
| PR: TAX 4001 with a minimum grade of C FIN 3144 with a minimum grade of C |
| This course focuses on the fundamentals of estate planning, including the social and family implications of federal/state taxation of transfers of wealth by gift or at death. Trusts, guardianships and post mortem planning are covered in this course. |

| **FIN 4303 Financial Institutions and Markets (3)** |
| PR: FIN 3403 with a minimum grade of C |
| 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)** |
| PR: FIN 3403 with a minimum grade of C|
| 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)** |
| PR: FIN 3403 with a minimum grade of C |
| 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)** |
| PR: FIN 3403 with a minimum grade of C |
| 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)** |
| PR: FIN 4414 with a minimum grade of C- or FIN 4504 with a minimum grade of C- |
| A senior seminar for majors in Finance. Primarily a case course examining financial policies and the application of financial analysis to alternative strategies. |

| **FIN 4461 Financial Statement Analysis (3)** |
| PR: FIN 3403 with a minimum grade of C |
| 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)** |
| PR: FIN 3403 with a minimum grade of C |
| 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. |
## COURSE DESCRIPTIONS

### FIN 4514 Advanced Investment Analysis and Management (3)
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)
PR: FIN 4504.
This course covers financial futures and options markets, the fundamental properties and pricing principles of these instruments, as well as hedging and risk management strategies using such instruments. The course is not repeatable for credit.

### FIN 4560 Applied Securities Analysis (3)
PR: FIN 4504.
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)
Specialized independent study determined by the student's needs and interests.

### FIN 4915 Independent Research (1-3)
The research project will be mutually determined by the student and instructor.

### FIN 4934 Selected Topics in Finance (1-3)
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.

### FIN 4970 Finance Honors Thesis (3)
6ACT, 6ACT, WRIN
This course is the climax of an undergraduate experience in the College of Business. Thesis development supports critical investigation to develop explanations or solutions to academically interesting business problems or opportunities.

### FLE 4290 Technology in the Foreign and Second Language Classroom (3)
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)
CPR: EDG 4620
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)
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)
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)
PR: FLE 4314
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)
CR: FLE 4314 or FLE 4333
Pre-internship field experience in a K-12 environment. Will include observation and practice in a K-12 classroom as well as class meetings.
<table>
<thead>
<tr>
<th>Course Code</th>
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<th>Prerequisites/Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>FLE 4390</td>
<td>Teaching Foreign/Second Languages (3)</td>
<td>Comprehensive review of teaching foreign and second languages. Practical overview of methods to teach reading, writing, speaking, and listening. The course is open to non-majors.</td>
</tr>
<tr>
<td>FLE 4936</td>
<td>Senior Seminar in Foreign Language Education (3)</td>
<td>CPST Synthesis of teacher candidate’s courses in complete college program.</td>
</tr>
<tr>
<td>FLE 4940</td>
<td>Internship: Foreign Language Education (1-12)</td>
<td>One full semester of internship in a public or private school.</td>
</tr>
<tr>
<td>FLE 5145</td>
<td>Language Principles, Acquisition and Teaching (3)</td>
<td>PR: FLE 5345 Restricted to Education majors and not repeatable for credit. Overview of applied SLA theory and components of language. Methods &amp; techniques of comprehensible instruction and the development of oral proficiency and literacy skills for LEP children.</td>
</tr>
<tr>
<td>FLE 5291</td>
<td>Technology in the Foreign Language Classroom (3)</td>
<td>PR: FLE 5313 and FLE 5331. This course is intended to prepare foreign/second language teachers to provide pedagogically sound and technologically enhanced instruction for foreign language and second language students in the K-16 realm. Basic computer literacy is recommended.</td>
</tr>
<tr>
<td>FLE 5313</td>
<td>Methods of Teaching Foreign Language and ESOL in the Elementary School (3)</td>
<td>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.</td>
</tr>
<tr>
<td>FLE 5331</td>
<td>Methods of Teaching Foreign Language and ESOL in the Secondary School (3)</td>
<td>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.</td>
</tr>
<tr>
<td>FLE 5345</td>
<td>Teaching English Language Learners K-12 (3)</td>
<td>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.</td>
</tr>
<tr>
<td>FLE 5366</td>
<td>ESOL Education in Content Areas (3)</td>
<td>Enables participants to meet the special linguistic &amp; cultural educational needs of limited English proficient (LEP) students in content area classes. Provides a theoretical &amp; practical foundation for ESOL competencies in courses include ESOL infusion.</td>
</tr>
<tr>
<td>FLE 5895</td>
<td>Dual Language Education (3)</td>
<td>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.</td>
</tr>
<tr>
<td>FLE 5946</td>
<td>Practicum in Foreign Language/ESOL Teaching (3)</td>
<td>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.</td>
</tr>
<tr>
<td>FOL 2100</td>
<td>General Foreign Language I (1-4)</td>
<td>A general purpose course that may be used for transfer of credit, credit by examination, and similar matters; may also be used for formal courses in less commonly taught languages or in professional translation.</td>
</tr>
<tr>
<td>FOL 4102</td>
<td>General Foreign Language II (1-3)</td>
<td>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.</td>
</tr>
<tr>
<td>FOL 4905</td>
<td>Directed Study (1-3)</td>
<td>Departmental approval required.</td>
</tr>
<tr>
<td>FOL 5906</td>
<td>Directed Study (1-3)</td>
<td>PR: FOL 4101 or equivalent.</td>
</tr>
<tr>
<td>FOT 4131</td>
<td>Understanding World Cultures (3)</td>
<td>In Understanding World Cultures students will encounter and explore the characteristics and features of historical and contemporary cultures of the world through the critical analysis of aesthetic production.</td>
</tr>
<tr>
<td>FRE 1120</td>
<td>Beginning French I (4)</td>
<td>The first course in the study of elementary French. Emphasis on the development of basic skills in comprehension, speaking and reading.</td>
</tr>
<tr>
<td>FRE 1121</td>
<td>Beginning French II (4)</td>
<td>PR: FRE 1120 or equivalent. A continuation of FRE 1120.</td>
</tr>
</tbody>
</table>

For Current Course Inventory, see [https://www.systemacademics.usf.edu/course-inventory/](https://www.systemacademics.usf.edu/course-inventory/)
### FRE 2200 French III (3)
- **PR:** FRE 1121 or equivalent.
- A review of the basic structure of French.

### FRE 2201 French IV (3)
- **PR:** FRE 2200 or equivalent.
- Readings in French on the intermediate level.

### FRE 2240 Intermediate Spoken French in Cultural Context (3)
- **PR:** FRE 2241 or equivalent
- Continuing development of intermediate conversational skills through a comparative cultural approach. Students build vocabulary, oral syntax, and enhance fluency while examining socio-cultural realities in France and Francophone countries.

### FRE 2241 Spoken French in Cultural Context (3)
- **PR:** FRE 1121
- Development of basic conversational skills in French through a wide variety of cultural context. Students build vocabulary, enhance listening comprehension and fluency in French as they examine socio-cultural realities and issues.

### FRE 2270 Overseas Study-Intro. French (1-6)
- **PR:** Two semesters of university-level French

### FRE 3234 Reading in French Literature and Culture (3)
- **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 3420 Written French in Cultural Context (3)
- **PR:** FRE 2200 and/or FRE 2201
- Development of writing skills in French through a wide variety of cultural context. Students analyze texts relating to descriptions of persons, places and events, films and fiction, publicity, and argumentation. Workshops facilitate their writing.

### FRE 3440 French For Business (3)
- **PR:** FRE 2200 or equivalent
- An introduction to the French language in ordinary business transactions.

### FRE 3470 Overseas Study (1-6)
- An intensive study-travel project in France.

### FRE 3500 French Civilization (3)
- **CPST**
- Readings and discussion on the cultural history of France.

### FRE 3502 The Francophone World: A Global Culture (3)
- **EMWP**
- Offers an overview of the main French speaking cultures throughout the world outside France: French Canada, the Caribbean, Belgium, Switzerland, the Maghreb, Sub-Saharan Africa, the Indian Ocean, the Middle East, Southeast Asia, Louisiana.

### FRE 3507 African Images in Francophone Film (3)
- This is a film based course and technologically enhanced course which will look at cultural, socio-economic, political and gender issues in French speaking Africa. Course materials will be available in English and French.

### FRE 4421 Advanced Written French in Cultural Context (3)
- **PR:** FRE 3470
- Development of various styles of writing in cultural context relating to art, social science and science. Analysis of descriptive, narrative, expository and argumentative writing. Refinement of written French including vocabulary, structure and style.

### FRE 4470 Overseas Study (1-6)
- **PR:** FRE 3470
- Intensive language study in France.

### FRE 4700 French Linguistics (3)
- **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)

### FRE 4910 Selected Topics (1-3)
- Study of an author, movement or theme.

### FRE 5425 Advanced Written Expression (3)
- **PR:** FRE 4421, or equivalent.
- Course is designed to give advanced training in free composition in French.

### FRE 5566 Contemporary France (3)
- **PR:** FRE 3500 or equivalent
- 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 (3)
- **PR:** 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 (3)  
PR: ENG 1101 and 1102 or their equivalent.  
6ACT, 6ACT, WRIN  
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 (3)  
PR: FRE 3234, FRE 3420  
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 (3)  
PR: FRE 3234.  
A study of the history of drama and poetry. Will include medieval drama, Racine, Corneille, Moliere, Anouilh, Sartre, Ionesco and others. Will also include Villon, Ronsard, DuBellay, Lamartine, Hugo, Vigny, Musset, Baudelaire, Mallarme, Rimbaud, Valery, Peguy, Eliard, Apollinaire, Char, and others. Course content may vary from year to year. Course taught in French.

FRW 5222 Classical Prose and Poetry (3)  
PR: FRW 4101.  
Emphasis on Malherbe, Descartes, Pascal, La Fontaine, and Boileau.

FRW 5226 20th Century Poetry and Theatre (3)  
PR: FRW 4101.  
Valery, Claudel, Anouilh, Motherland, Sartre, Ionesco.

FRW 5286 The 20th Century Novel (3)  
PR: FRW 4100.  
Proust, Gide, Mauriac, Malraux, Camus, Robbe-Grillet.

FRW 5314 Classical Drama (3)  
PR: FRW 4101.  
Corneille, Moliere, and Racine.

FRW 5415 Literature of the Middle Ages (3)  
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)  
PR: FRW 4100 or FRW 4101.  
A study of Renaissance French humanism including Rabelais, Montaigne, and Pleiade poets.

FRW 5445 18th Century Literature (3)  
PR: FRW 4100.  
The classical tradition and the new currents of thought in the Age of Enlightenment.

FRW 5535 Romanticism and Early Realism (3)  
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)  
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)  
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)  
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)  
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)  
Study of an author, movement or theme.

GEA 2000 World Regional Geography (3)  
6ACT, 6ACT, CAGC, SPSS, TGED  
Comparative and analytical analysis of representative world regions with emphasis on cultural, political, economic, environmental and physical diversity.

GEA 3194 Regional Geography (3)  
Variable title course to systematically study and compare special regions identified by the instructor.

GEA 3405 Geography of Latin America (3)  
6ACT, 6ACT  
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 (3)  
6ACT, 6ACT  
Systematic geographic analysis of the European world region, with emphasis on its cultural, political, economic, environmental, and physical diversity.
COURSE DESCRIPTIONS

(AS OF MARCH 1, 2019)

UNIVERSITY OF SOUTH FLORIDA 2019-20 UNDERGRADUATE CATALOG

GEA 3703 Geography of Asia (3)
Systematic geographic analysis of the Asian world region, with emphasis on its cultural, political, economic, environmental, and physical diversity.

GEB 2098 Business Honors Professional Development I (1)
Students are provided the opportunity to come together and learn more about the university and college programs, understand the various business disciplines and develop professional skills necessary in their career.

GEB 2099 Business Honors Professional Development II (1)
PR: GEB 2098
This course is designed to provide students in the Business Honors Program (BHP) with the opportunity to learn the distinct features of professional development and critical analysis of business development through discussion of Harvard Business articles.

GEB 2350 Doing Business Around the World (3)
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 (1-3)
Topics to be selected by department chairs.

GEB 3033 Business Workplace Skills and Best Practices (3)
PR: ENC 1102 with a minimum grade of C-
This course prepares students for success in the business world. It addresses the most frequently cited set of skills employers seek when hiring employees.

GEB 4094 Professional Development: Career Transition (2)
This course will help prepare students for summer jobs, internships, and their future careers. The topics covered will be useful in gaining employment and include: resume building, cover letter writing, interviewing tips, networking skills.

GEB 4097 Professional Development: Interpersonal Communication (2)
This course will provide students the opportunity to learn the distinct features of professional development focusing on interpersonal communication. Such topics as: negotiations, conflict resolution, basic money mastery skills will be addressed.

GEB 4890 Strategic Management and Decision Making (3)
PR: FIN 3403, MAN 3025, MAR 3023.
6ACM, CPST, EMWP, SMCC
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 4905 Independent Study (1-3)
Specialized independent study determined by the student's needs and interests.

GEB 4915 Independent Research (1-4)
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 (1-3)
The content and organization of this course will vary according to the current interests of the faculty and needs of students.

GEB 4970 General Business Honors Thesis (3)
6ACT, 6ACT, WRIN
This course is the climax of an undergraduate experience in the College of Business. Thesis development supports critical investigation to develop explanations or solutions to academically interesting business problems or opportunities.

GEO 1930 Geography of Current Events (3)
Application of basic geographic principles to the analysis of contemporary events in various parts of the world.

GEO 2200 Introduction to Physical Geography (3)
CANP, SPNS
This course explores the principles of physical geography; maps; earth sun relationships; meteorological, hydrological, pedagogical, aeolian, and glacial processes, and resulting landforms.

GEO 2200L Introduction to Physical Geography Lab (1)
CR: GEO 2200.
Laboratory portion of Introduction to Physical Geography (GEO 2200).
GEO 2400 Human Geography (3)
6ACT, CAGC, TGED
Human geography encompasses those branches in geography which focus primarily upon the relationships between humans and the environments they construct. This course will examine the object of study of human geography, as well as explore many of the components of human geography, including economic geography, geopolitics, cultural geography, urban geography, population geography, and the relationships between geography and globalization.

GEO 2931 Special Topics (1-3)
Topics are at the discretion of the instructor. This course will offer lower level topics to attract new majors.

GEO 3164C Research Methods in Geography (3)
PR: STA 2023 or STA 2122 or QMB 2100.
Statistical analysis in geographic research.

GEO 3280 Environmental Hydrology (3)
PR: GEO 2200 or GLY 2010
Introduction to the general principles that govern hydrologic processes. Approaches to hydrologic measurements and the application of hydrologic analyses to water-resource management issues are examined.

GEO 3602 Urban Geography (3)
PR: GEO 2400
Spatial analysis of urban areas; growth, location, spacing, and size. Development, site, situation, internal structure, and hinterland are considered.

GEO 4114C Geographic Techniques and Methodology (3)
PR: GIS 3006 and GEO 3164C
Selected topics in various geographic techniques and methodologies and their application.

GEO 4204C Topics in Physical Geography (3)
PR: GEO 2200
Intensive study of a topic selected from physical geography.

GEO 4210 Process Geomorphology (3)
PR: GEO 2200 or GLY 2010
Origin, evolution, and distribution of the landforms of North America.

GEO 4244 Tropical Meteorology (3)
PR: GEO 2200, one approved Calculus course
This course examines the tropical atmosphere, its interaction with land and ocean, as well as weather and climate phenomena that are unique to the topics. Students will take an in-depth look at hurricane climatology, the El Nino and Southern Oscillation phenomenon, thunderstorms and lightning, satellite remote sensing, monsoons, sea-breeze convergence and Florida climatology, surface energy exchange, land use change and its impact on tropical climates.

GEO 4265 Soil Genesis and Classification (3)
PR: GEO 2200 or GLY 2010 or CI
A systematic study of soil genesis and classification with a focus on North American and Florida soils.

GEO 4284 Water Resources Management (3)
Geographic perspectives on water resources management at the global, national and local scale, including political, socio-economic, technical and scientific aspects.

GEO 4300 Biogeography (3)
PR: GEO 2200 and GEO 3164C
Analysis of the present and past distribution of species at an intermediate to large spatial scale.

GEO 4340 Natural Hazards (3)
GCPC, GCPC
Examination of the physical, social, economic, political and cultural forces that create the phenomena of natural hazards. Case studies from around the world will include floods, droughts, tornadoes, hurricanes, freezes, heat waves, wild fires, earthquakes, tsunami, and volcanoes.

GEO 4372 Global Conservation (3)
6ACP, 6ACT, 6ACT, EMWP, TGED
The course examines environmental conservation and policy from a global perspective. It holistically integrates the science of conservation with environmental, economic, sociocultural, and political realities that challenge conservation efforts.

GEO 4379 Geographic Perspectives on Environment (3)
PR: GEA 2000C
This course examines human ideas about the natural environment and the fundamental character of the human-nature relationship across space and time through a survey of literature (geography, environmental history, ethics) on environmental perspectives.

GEO 4421 Cultural Geography (3)
PR: GEO 2400
The interrelationships of culture and nature, from ancient times to the present.
GEO 4471 Political Geography (3)
PR: GEO 2400
EMWP
The geographic factors underlying political
decisions and influencing their outcome; the
geographic consequences of these decisions;
geopolitics.

GEO 4502 Economic Geography (3)
PR: GEO 2400
The spatial organization of economic production,
consumption, and exchange systems.

GEO 4604 Topics in Urban Geography (3)
PR: GEO 3602
Intensive examination of issues such as economic
restructuring and inner-city decline, ghetto
formation, gentrification, transportation, and policy-
making.

GEO 4700 Transportation Geography (3)
PR: GEO 2400 and GEO 3164C
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)

GEO 4910 Individual Research (1-4)

GEO 4930 Selected Topics (1-3)
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)
Weekly topical lectures by faculty and outside
speakers. Students will develop a plan for their
professional or graduate careers.

GER 1120 Beginning German I (4)
Development of basic skills in listening and
reading comprehension, speaking and writing of
German.

GER 1121 Beginning German II (4)
PR: GER 1120 or equivalent.
Continued development of basic skills in listening
and reading comprehension, speaking and writing
German.

GER 2200 German III (3)
PR: GER 1121 or equivalent.
A review of the basic structure of spoken and
written German. May be taken concurrently with
GER 2201.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Prerequisites</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>GER 5845</td>
<td>History of the German Language (3)</td>
<td></td>
<td>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.</td>
</tr>
<tr>
<td>GET 3103</td>
<td>German Literature in English Translation (3)</td>
<td></td>
<td>Analysis and interpretation of selected major works of German literature, to be read in English, with regard to their thought content and relevance to our thoughts and actions.</td>
</tr>
<tr>
<td>GET 3522</td>
<td>Fantastic Films of Early German Cinema (3)</td>
<td></td>
<td>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.</td>
</tr>
<tr>
<td>GET 3524</td>
<td>German Popular Film (3)</td>
<td></td>
<td>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.</td>
</tr>
<tr>
<td>GET 4250</td>
<td>Dungeons Dragons &amp; Dwarfs Germanic Myth &amp; Pop Cult (3)</td>
<td></td>
<td>This course explores historical, literary and visual (re)constructions and adaptations of Germanic mythology and history from antiquity to the present.</td>
</tr>
<tr>
<td>GEW 4100</td>
<td>Survey of German Literature I (3)</td>
<td></td>
<td>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.</td>
</tr>
<tr>
<td>GEW 4101</td>
<td>Survey of German Literature II (3)</td>
<td></td>
<td>A 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.</td>
</tr>
<tr>
<td>GEW 4750</td>
<td>Women in Contemporary German Literature and Film (3)</td>
<td>PR: GER 2200 or above</td>
<td>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.</td>
</tr>
<tr>
<td>GEW 4900</td>
<td>Directed Study (1-3)</td>
<td></td>
<td>Study of an author, movement or theme.</td>
</tr>
<tr>
<td>GEW 4930</td>
<td>Selected Topics (1-3)</td>
<td></td>
<td>Study of an author, movement or theme.</td>
</tr>
<tr>
<td>GEW 4506</td>
<td>Faust (3)</td>
<td></td>
<td>Sources, form, content, and literary significance of Urfaust and Faust.</td>
</tr>
<tr>
<td>GEW 5934</td>
<td>Selected Topics (1-3)</td>
<td></td>
<td>Study of an author, movement or theme.</td>
</tr>
<tr>
<td>GEY 2000</td>
<td>Introduction to Aging Sciences (3)</td>
<td>6ACT, CASB, SMEL, SMSS, TGEI</td>
<td>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.</td>
</tr>
<tr>
<td>GEY 3323</td>
<td>Community Resources for the Older Adult (3)</td>
<td>SMCD</td>
<td>This class is designed to introduce students to services available to older adults and to careers in the field of Aging Services. Content includes theoretical and practical issues, as well as exposure to opportunities for service and employment.</td>
</tr>
<tr>
<td>GEY 3503</td>
<td>Administration of Assisted Living Facilities (3)</td>
<td></td>
<td>The course provides an overview of administration for assisted living facilities. Upon successful completion of the course, students to sit for the state of Florida's Core Examination to become an assisted living administrator.</td>
</tr>
<tr>
<td>GEY 3601</td>
<td>Physical Changes and Aging (3)</td>
<td></td>
<td>A 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.</td>
</tr>
</tbody>
</table>
GEY 3625 Sociological Aspects of Aging (3)
6ACT, CASB, TGED
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)
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)
6ACT, 6ACT, TGEC, WRIN
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 4104 Healthy Global Aging (3)
GCPC, GCPC
This course challenges students to understand health and wellness for older adults in a global context at a time when the global population is aging.

GEY 4231 Elder Abuse and Neglect (3)
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 Care Management for Older Adults (3)
This course examines the role and function of care management in meeting the needs of older adults. All aspects of care management practice are covered, including the elements of the case management process as well as ethical and legal issues.

GEY 4360 Counseling for Older Adults (3)
An introduction to the study of the major mental health problems of older adults. Current approaches to counseling older adults in community and institutional settings are discussed.

GEY 4401 Research Methods in Aging (3)
PR: STA 2122 or equivalent with a grade of C or better.
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)
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 (3)
PR: GEY 2000
CPST
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 (3)
PR: GEY 4507, ACG 2021, each with a grade of C or better.
This course addresses the health care operations of long-term care facilities. This course is for students in the BS in long-term care administration, but not limited to GEY majors. The course is repeatable for credit.

GEY 4509 Regulatory and Clinical Operations (3)
PR: GEY 4508, ACG 2021, each with a grade of C or better.
This course will familiarize the student with the basic aspects of nursing home administration through the practical application of management theory and concepts. The course is not repeatable and not restricted to GEY majors.

GEY 4520 Legal Aspects of Health Care Administration (3)
This web-based course presents an overview of the legal issues facing the health care industry and provides special emphasis on long-term care settings. It provides students with a basic working knowledge of legal system and court processes.

GEY 4608 Alzheimer's Disease Management (3)
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 disorders and typical behaviors presented by patients are presented along with strategies for successful behavior management. Building a dementia program and building dementia care teams are also covered.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Instructor(s)</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEY 4612</td>
<td>Psychology of Aging (3)</td>
<td>ACT, CASB, TGEI</td>
<td>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.</td>
</tr>
<tr>
<td>GEY 4628</td>
<td>Health, Ethnicity, and Aging (3)</td>
<td></td>
<td>This course addresses how people of different ethnic backgrounds age, in the physical, psychological, and social context, with an emphasis on health.</td>
</tr>
<tr>
<td>GEY 4629</td>
<td>Women and Aging (3)</td>
<td></td>
<td>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.</td>
</tr>
<tr>
<td>GEY 4632</td>
<td>Economics of Aging (3)</td>
<td></td>
<td>This course provides the foundations of economic reasoning necessary to understand the economic implications of key issues in aging.</td>
</tr>
<tr>
<td>GEY 4635</td>
<td>Business Management in an Aging Society (3)</td>
<td>CPST</td>
<td>This course provides students with an interdisciplinary perspective that addresses both business management and the impact of our aging society on business.</td>
</tr>
<tr>
<td>GEY 4641</td>
<td>Death and Dying (3)</td>
<td>CASB</td>
<td>A broad overview of the basic concepts and psychosocial issues relating to the meaning of loss and death, the process of death, and the experience of grieving. Health care practices are considered along with community resources.</td>
</tr>
<tr>
<td>GEY 4647</td>
<td>Ethical and Legal Issues in Aging (3)</td>
<td>CPST, SMLE</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 Aging (3)</td>
<td></td>
<td>In this senior level capstone course, students discuss important professional issues in aging, integrate knowledge from prior courses, and practice professional skills.</td>
</tr>
<tr>
<td>GEY 4900</td>
<td>Directed Readings in Aging (1-3)</td>
<td></td>
<td>A reading program with topics in aging conducted under the supervision of a faculty member.</td>
</tr>
<tr>
<td>GEY 4917</td>
<td>Directed Research in Aging (1-4)</td>
<td></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)</td>
<td></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>Internship (1-9)</td>
<td></td>
<td>A full-time internship assignment to an agency or organization if in the Aging Science program (3-6 hours) or to a nursing home if in the Long Term Care Administration program (9 hours).</td>
</tr>
<tr>
<td>GEY 5476</td>
<td>Program Evaluation in an Aging Society (3)</td>
<td></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)</td>
<td></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 5504</td>
<td>Assisted Living Facility Management (3)</td>
<td></td>
<td>The course covers the material for students to sit for and pass the State of Florida Assisted Living Core examination to become a licensed assisted living administrator.</td>
</tr>
<tr>
<td>GEY 5620</td>
<td>Sociological Aspects Of Aging (3)</td>
<td></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)</td>
<td></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)</td>
<td></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 2010</td>
<td>Map Interpretation (3)</td>
<td></td>
<td>Analysis and synthesis of various types of maps and map projections.</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Prerequisites</td>
<td>Description</td>
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<tr>
<td>GIS 3006</td>
<td>Mapping and Geovisualization (3)</td>
<td>6ACT, TGEI</td>
<td>An introduction to the concepts underlying modern, computer-based mapping and to the collection, storage, and geovisualization of digital spatial data.</td>
</tr>
<tr>
<td>GIS 4035C</td>
<td>Remote Sensing of the Environment (3)</td>
<td>PR: GIS 3006 and GEO 3164C</td>
<td>Analysis of satellite images and aerial photographs for studies of the environment.</td>
</tr>
<tr>
<td>GIS 4043C</td>
<td>Geographic Information Systems (3)</td>
<td>PR: GIS 3006 and GEO 3164C</td>
<td>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 4302C</td>
<td>GIS for Sustainability (4)</td>
<td>PR: GIS 3006, with a minimum grade of C or better</td>
<td>Focus on the application of GIS for sustainable planning and development; policymakers &amp; planning agencies increasingly use spatial data/methods to aid in their decisions; this course is relevant to anyone interested in issues for sustainable development.</td>
</tr>
<tr>
<td>GIS 5034C</td>
<td>Introduction to Remote Sensing (3)</td>
<td></td>
<td>An introduction to the basic concepts, principles and practices of photogrammetry and remote sensing and their applications in natural resource management, measurements of structural parameters, and environmental monitoring.</td>
</tr>
<tr>
<td>GIS 5049</td>
<td>GIS for Non-Majors (3)</td>
<td></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>GLY 2000</td>
<td>Earth and Environmental Systems (3)</td>
<td></td>
<td>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.</td>
</tr>
<tr>
<td>GLY 2000L</td>
<td>Essentials of Geology Laboratory (1)</td>
<td></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.</td>
</tr>
<tr>
<td>GLY 2010</td>
<td>Dynamic Earth: Introduction to Physical Geology (3)</td>
<td>CANP</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 (3)</td>
<td>CANP</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 (3)</td>
<td></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 the primates, and the environmental future of the planet. (For both non-science and science majors.)</td>
</tr>
<tr>
<td>GLY 2073</td>
<td>Global Climate Change: A Geoscience Perspective (3)</td>
<td>CANP</td>
<td>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.</td>
</tr>
<tr>
<td>GLY 2100</td>
<td>History of Life (3)</td>
<td>CANL</td>
<td>This course has several objectives. It is an introduction not only to basic scientific concepts 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.</td>
</tr>
<tr>
<td>GLY 2100L</td>
<td>History of Life Laboratory (1)</td>
<td></td>
<td>Laboratory study of the history of life.</td>
</tr>
<tr>
<td>GLY 2160</td>
<td>Geology of the National Parks (3)</td>
<td>CANP</td>
<td>This course introduces the nature of geologic processes including plate tectonics, earthquakes, volcanism, and glaciation drawing on examples from our nation's parks.</td>
</tr>
<tr>
<td>GLY 2930</td>
<td>Selected Topics in Geology (1-3)</td>
<td></td>
<td>Topical courses in geology of general interest.</td>
</tr>
<tr>
<td>GLY 3104C</td>
<td>Stratigraphy and Paleontology (4)</td>
<td>PR: GLY 2000L, GLY 3552C, GLY 2100</td>
<td>The study of &quot;deep time&quot;</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
<td>Prerequisites</td>
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<tr>
<td>GLY 3552C</td>
<td>Sedimentary Rocks and Processes</td>
<td>4</td>
<td>GLY 2010, GLY 2000L, CHM 2045, GLY 3311C</td>
</tr>
<tr>
<td>GLY 3850</td>
<td>Geology For Engineers</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GLY 3866</td>
<td>Computational Geology</td>
<td>3</td>
<td>MAC 2281 or MAC 2311</td>
</tr>
<tr>
<td>GLY 4053</td>
<td>Theories and Arguments about the Earth</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GLY 4310</td>
<td>Petrology</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GLY 4324C</td>
<td>Physical Volcanology</td>
<td>4</td>
<td>GLY 3311C, MAC 2241 or MAC 2311 or MAC 2281</td>
</tr>
<tr>
<td>GLY 4462</td>
<td>Geomechanics</td>
<td>3</td>
<td>PR: GLY 2010 or equivalent, PHY 2048 and 2049 or equivalent. CPR: GLY 3402C or an equivalent structural geology course.</td>
</tr>
<tr>
<td>GLY 4480</td>
<td>Seismology</td>
<td>4</td>
<td>GLY 2010, PHY 2048 or PHY 2053, MAC 2281 or MAC 2311</td>
</tr>
<tr>
<td>GLY 4554C</td>
<td>Sedimentary Environments</td>
<td>4</td>
<td>PR: At least one course in Geology with lab.</td>
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<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Prerequisites/Notes</td>
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<tr>
<td>GLY 4734</td>
<td>Beaches and Coastal Environments (3)</td>
<td>EMWP</td>
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<td>A comprehensive introduction to the nature of all coastal environments including beaches, dunes, tidal inlets, estuaries, reefs, and river deltas. Emphasis will be on the natural state of these environments and how human activities have and will impact them. Consideration of coastal management policies involving economics, ethics, policy, and environmental law.</td>
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<tr>
<td>GLY 4780</td>
<td>Geological Field Studies (1-3)</td>
<td>PR: 1 geology course. Lectures and field trip to study modern geologic systems and/or geologic origins of specific regions. Mapping and field description techniques introduced. Topic/destination of trip varies. Trip requires camping and vigorous physical activity. Lec. Field trip.</td>
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</tr>
<tr>
<td>GLY 4822C</td>
<td>Hydrogeology (4)</td>
<td>PR: GLY 2010, GLY 2000L, MAC 2281 or MAC 2311, PHY 2048 or PHY 2053, ChM 2045 CR: MAC 2282 Ground water flow systems, ground water geology, introduction to numerical and analytical models of ground water flow. Lec.-lab.-field trips.</td>
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<tr>
<td>GLY 4905</td>
<td>Independent Study (1-3)</td>
<td>Specialized independent study determined by the student's needs and interests.</td>
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<tr>
<td>GLY 4915</td>
<td>Undergraduate Research (1-3)</td>
<td>Individual experimental investigations with faculty supervision.</td>
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<tr>
<td>GLY 4920</td>
<td>Geology Colloquium (1)</td>
<td>Weekly topical lectures by faculty, graduate students and invited speakers.</td>
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<tr>
<td>GLY 4921</td>
<td>Scientific Communication (3)</td>
<td>6ACT, 6ACT, WRIN A writing-intensive FKL capstone course designed to develop students’ skills in communicating scientific ideas through the written word, spoken word, and through graphical displays of information (graphs, diagrams).</td>
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<tr>
<td>GLY 4930</td>
<td>Selected Topics in Geology (1-4)</td>
<td>Each topic is a course under the direction of a faculty member. All areas of geology included.</td>
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</tr>
<tr>
<td>GLY 4946</td>
<td>Practical and Applied Geology: Teaching Experience (2)</td>
<td>PR: 12 credit hours of Geology courses Hands-on course designed to give students experience in teaching geology.</td>
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<tr>
<td>GLY 4947</td>
<td>Practical and Applied Geology: Laboratory Experience (2)</td>
<td>PR: 12 credit hours of Geology courses Hands-on course designed to teach the basic laboratory skills of a practicing geologist.</td>
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<tr>
<td>GLY 4948</td>
<td>Practical and Applied Geology: Field Experience (2)</td>
<td>PR: 12 credit hours of Geology courses Hands-on course designed to teach the basic skills of a practicing field geologist.</td>
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<tr>
<td>GLY 4949</td>
<td>Practical and Applied Geology: Field Mapping (2)</td>
<td>PR: 12 credit hours of Geology courses Hands-on course designed to teach the basic mapping skills of a practicing geologist.</td>
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<tr>
<td>GLY 5786</td>
<td>Geological Field Excursion (2)</td>
<td>Lectures and 2-3 week field excursion to study regional geology, structure and lithogenesis of geologically complex terrain. Mapping and outcrop description techniques are emphasized. Destination of trip varies. Trip requires camping and vigorous physical activity. Lec.-field trip.</td>
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<tr>
<td>GLY 5865</td>
<td>Statistical Models in Geology (3)</td>
<td>PR: STA 2023 or equivalent Application of statistical methods to geological problems. Emphasis on sampling plans, nature of geologic distributions, and application of analyses of variance to solving geological problems. Lec.</td>
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<tr>
<td>GRA 2206C</td>
<td>Typography (3)</td>
<td>This foundational course explores the structure of letter forms and lettering. This course provides information about the importance of type in the context of graphic design and application for printed and electronic media.</td>
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<tr>
<td>GRA 3104</td>
<td>Computer Graphics (3)</td>
<td>This course is the continuation of Graphic Design I. The coursework emphasizes the utilization of electronic media for visual problem solving. Students will increase their skill with web based design and photo-editing software.</td>
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<tr>
<td>GRA 3193</td>
<td>Graphic Design I (3)</td>
<td>Restricted to majors. This course explores the application of formal design principles to visual problem solving through typography, layout, and web design. Students will apply conventional and electronic tools and techniques to the graphic design process.</td>
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<tr>
<td>GRA 3735</td>
<td>Multimedia Systems I (3)</td>
<td>This course introduces multimedia systems and focuses on their use as tools in the production of digital multimedia. Content covers all key hardware, navigation, and operating components.</td>
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<tr>
<td>Course Code</td>
<td>Course Name</td>
<td>Description</td>
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<tr>
<td>GRA 4930C</td>
<td>Graphic Design: Senior Studio (3)</td>
<td>Advanced problems in graphic design, advertising, and multimedia visual communication systems will be discussed and assigned as projects. Focus is upon efficient and effective use of technology in the design production process.</td>
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<tr>
<td>GRA 4940</td>
<td>Graphic Design: Internship (2)</td>
<td>On site supervised work experience in an educational, graphic studio, advertising agency, or corporate environment.</td>
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<tr>
<td>GRA 4945</td>
<td>Graphic Design: Professional Practicum (3)</td>
<td>Students fine-tune their portfolios, create self promotional print and digital projects and develop their resumes. Includes field trips to studios, agencies, corporate graphic departments and marketing firms.</td>
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<tr>
<td>GRA 4955C</td>
<td>Senior Project: Portfolio (3)</td>
<td>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 promotional skills.</td>
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<tr>
<td>GRE 1120</td>
<td>Beginning Classical Greek I (4)</td>
<td>An introductory course in classical Greek grammar with appropriate readings.</td>
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<tr>
<td>GRE 1121</td>
<td>Beginning Classical Greek II (4)</td>
<td>PR: GRE 1120 or equivalent. An introductory course in classical Greek grammar with appropriate readings.</td>
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<tr>
<td>GRE 2220</td>
<td>Intermediate Classical Greek (4)</td>
<td>PR: GRE 1121 or equivalent. Readings in Greek at an intermediate level.</td>
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<tr>
<td>GRK 1120</td>
<td>Beginning Modern Greek I (4)</td>
<td>An intensive study of basic skills; pronunciation, listening comprehension, speaking and some composition.</td>
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<tr>
<td>GRK 1121</td>
<td>Modern Greek II (4)</td>
<td>PR: GRK 1120 or its equivalent. A continuation of GRK 1120. An intensive study of basic skills; pronunciation, listening comprehension, speaking and some composition.</td>
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<tr>
<td>GRK 2220</td>
<td>Modern Greek III (4)</td>
<td>PR: GRK 1121 or the equivalent. For language students who intend to attain basic proficiency.</td>
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<tr>
<td>GRK 2221</td>
<td>Modern Greek IV (4)</td>
<td>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.</td>
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<tr>
<td>GRK 4905</td>
<td>Directed Study (1-5)</td>
<td>Permits study options in Modern Greek not available in the regularly scheduled curriculum at departmental discretion.</td>
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<tr>
<td>GRW 3502</td>
<td>Survey of Greek Literature: Plato’s Republic (3)</td>
<td>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.</td>
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<tr>
<td>GRW 4905</td>
<td>Directed Reading (1-4)</td>
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<tr>
<td>GRW 5905</td>
<td>Directed Reading (1-4)</td>
<td></td>
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<tr>
<td>GRW 5934</td>
<td>Selected Topics (1-4)</td>
<td>Study of an author, movement or theme.</td>
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<tr>
<td>HBR 1120</td>
<td>Modern Hebrew I (4)</td>
<td>An intensive study of basic skills; pronunciation, listening comprehension, speaking and some composition.</td>
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<tr>
<td>HBR 1121</td>
<td>Modern Hebrew II (4)</td>
<td>PR: HBR 1120 or its equivalent. 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.</td>
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<tr>
<td>HBR 2220</td>
<td>Modern Hebrew III (4)</td>
<td>PR: HBR 1121 or the equivalent. For language students who intend to attain basic proficiency.</td>
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<tr>
<td>HIS 2931</td>
<td>Special Topics (3)</td>
<td>This course emphasizes a selected historical problem or issue. A variety of instructional approaches will be taken, and topics may vary.</td>
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</tbody>
</table>
COURSE DESCRIPTIONS
(AS OF MARCH 1, 2019)

UNIVERSITY OF SOUTH FLORIDA 2019-20 UNDERGRADUATE CATALOG

HIS 3308 War and Society (3)
EMWP
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.

HIS 3930 Special Topics (3)
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 (3)
6ACT, CPST, EMWP, HHCP, TGEI
This is a variable topics class that provides students with an understanding of how the discipline of history is relevant to analyzing human conflict, its multiple roots, and the impact it has in contemporary society.

HIS 4104 Theory and Methods of History (3)
6ACT, 6ACT, WRIN
Introduces history majors to the theories, methods, approaches, and key debates that are central to the modern historical profession. Develops skills in historical research, reading, writing, and oral communication. Restricted to majors.

HIS 4900 Directed Reading (1-4)
Arrangement with instructor prior to registration. Readings in special topics.

HIS 4920 Colloquium in History (2-4)
Reading and discussion of selected topics in the various fields of history. The subject and scope of inquiry will be determined by the instructor for each section.

HIS 4936 Pro-Seminar in History (3)
PR: HIS 4104
6ACM, 6ACP, 6ACT, CPST, EMWP, HHCP, SMCC
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)
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)
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 4722 Health and Physical Education for the Child (2)
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 4124 Comparative Health Care Systems (3)
Course covers the core questions of access, cost, quality, and values by a comparative approach to international health care systems.

HSC 2000 Introduction to Health Professions (3)
This course will introduce students to the US healthcare system and provide an overview of the various careers available within that system.

HSC 2017 Careers in Public Health (3)
GCPC, GCPC
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 (3)
6ACT, CASB, TGEI
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 (3)
6ACT, CASB, TGED
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)
Meets the American Red Cross certification requirements in standard and advanced first aid.

HSC 2933 Selected Topics in Public Health (1-3)
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 3301 Health, Safety, Nutrition and Motor Skills for the Young Child (3)
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 3503 Principles of Toxicology (3)
Covers basic principles of toxicology, incl. molecular/cellular sites of action of toxicants, physiological effects of toxicants on individual organ systems. Env tox is also covered.

HSC 4172 Women's Health: A Public Health Perspective (3)
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)
GCPC, GCPC
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 4213 Environmental and Occupational Risk Analysis (3)
This course provides an introduction of risk analysis for environmental and occupational health. Students will gain knowledge of the various regulations and scientific methods for the evaluation of health risk in environmental and occupational settings.

HSC 4430 Occupational Health and Safety (3)
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 (3)
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 4573 Foundations of Food Safety (3)
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.

HSC 4579 Foundations of Maternal and Child Health (3)
This course provides an overview of maternal and child health issues and trends. With this primary aim, the objectives are organized around the knowledge of health assessment and interventions for families and children.

HSC 4624 Foundations of Global Health (3)
GCPC, GCPC
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.

HSC 4630 Understanding U.S. Health Care (3)
An introduction to health services; providing an overview of important components of the U.S. health care system, health policy, funding sources, and comparisons with other developed nations.

HSC 4631 Critical Issues in Public Health (3)
6ACT, 6ACT, CPST, EMWP, TGE
This course provides students the opportunity to learn about the multiple ways to view controversial topics in public health. The course covers topics including biomedical issues, social & behavioral factors related to health, and environmental issues.

HSC 4933 Special Topics in Public Health (1-3)
Content will be governed by student demand and instructor interest.

HSC 5036 Professional Foundations of Health Education (1)
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.
COURSE DESCRIPTIONS
(AS OF MARCH 1, 2019)

UNIVERSITY OF SOUTH FLORIDA 2019-20 UNDERGRADUATE CATALOG

HUM 1020 Introduction to Humanities (3)
6ACM, 6ACP, CAFA, SGEH, SMEL, SMHU, SPHU
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.

HUM 2210 Studies in Culture: The Classical Through Medieval Periods (3)
CAHU, HHCP
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.

HUM 2230 European Humanities: Renaissance - 20th Century (3)
CAHU, HHCP
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.

HUM 2250 Studies in Culture: The Twentieth Century (3)
6ACT, CAHU, TGED
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.

HUM 2271 Eastern and Western Culture from Antiquity to 1400 (3)
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.

HUM 2273 Eastern and Western Culture Since 1400 (3)
CAGC
This course examines the different ways Westerners have viewed, understood, and made sense of Asia since the 15th-century.

HUM 2276 Modern Latin American Cultures (3)
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.

HUM 2522 Introduction to the Cultural Study of Popular Music (3)
CAHU
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.

HUM 2593 Science in Cultural Context (3)
6ACT, CAHU, TGEI
This course is an introduction to science studies, where students will engage with scientific texts and consider their production from a variety of historical, philosophical, and cultural views.

HUM 2930 Selected Topics (1-3)
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).

HUM 3230 The Renaissance (3)
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.

HUM 3231 The Seventeenth Century (3)
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.

HUM 3237 The Early Middle Ages: Early Christian Cultures (3)
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.

HUM 3240 The Early Middle Ages: Early Christian Cultures (3)
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.

HUM 3242 The Enlightenment (3)
By studying late seventeenth and eighteenth century literature, music, visual art, and philosophy, this course examines phenomena such as rationalism, classification systems, the influence of science, utilitarianism, reform, and secularism.
HUM 3244 Nineteenth Century European Culture (3)
By studying 19th century literature, music, and visual art, this course examines phenomena such as the rise of capitalism, colonial expansion, nationalism, urbanism, and the redefinition of public and political life during this period of extreme change.

HUM 3309 Introduction to Food Studies (3)
GCPC, GCPC
An experiential course addressing historical and contemporary relationships between people and the food they produce/consume, focusing on the impact of industrialization through examination of visual arts, literature, and popular culture texts.

HUM 3407 Ancient Near East Cultures (3)
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 Sasanian in Persia.

HUM 3457 Nineteenth Century American Arts and Letters (3)
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)
A historical survey of American culture since 1900. Literature, music, visual art, film, and intellectual movements are analyzed, 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)
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 Cultural Studies Theory and Method (3)
PR: AMS 2030 or AMS 2270 or FIL 1002 or HUM 2210 or HUM 2230 or HUM 2250 or HUM 2273 or HUM 2522
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 (1-3)
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)
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)
PR: HUM 3804 with a grade of B- or better GCPC, GCPC
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)
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 (3)
PR: HUM 2210 or HUM 2230
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 4452 Nineteenth Century American Culture (3)
PR: HUM 2210 or HUM 2230
Study of selected works of art, tracing the course of American expansionism in civilization, and the interaction between the arts and the sciences in American ways of life and work, 1790-1890.

HUM 4462 Pre-Columbian and Colonial Latin American Culture (3)
PR: HUM 2210 or HUM 2230
Analysis of selected Latin American works of art in their cultural context, with emphasis on the Pre-Columbian and Colonial periods. The course will focus on a particular historical, geographical, or thematic topic within those periods.
HUM 4464 Modern Latin American Culture (3)
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)
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)
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)
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)
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)
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)
Specialized individual study determined by the student's needs and interests

HUM 4930 Selected Topics in Humanities (1-3)
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 (3)
PR: HUM 3331
6ACT, 6ACT, CPST, WRIN
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 (3)
CPST
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 (1-3)
A structured, out-of-class learning experience providing firsthand, practical training in Humanities-related professional careers in the community.

HUM 4941 Study on Location (1-4)
The art of a culture will be examined during travel in groups, led by an instructor, to important cities or sites. Monuments, museums, architecture, plays, and/or concerts will be studied. Reading assignments and lectures. Not restricted.

HUN 2201 Nutrition (3)
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)
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.

HUN 3272 Sports Nutrition (3)
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)
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 3601 Nutrition Education & Counseling (3)
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 5265 Methods of Nutritional Assessment (1)
Methodology, skills and tools in measurement of the nutritional status of healthy individuals in community and patients in hospitals. The objectives of nutritional assessment is to prevent malnutrition and promote nutritional health.

IDC 2000C Introduction to Scientific Computing (3)
6ACT, TGEI
Introduction to computing for scientific applications. No prior programming experience required. Write readable, modular, correct code to solve problems from scientific disciplines. The course is intended to lead to undergraduate-research opportunities

IDH 2009 Honors Discovery: People, Processes and Problems (3)
An appreciation of the research process in multiple disciplines culminating in the production of a collaboratively developed research proposal.

IDH 2010 Acquisition of Knowledge: Interdisciplinary Inquiry and Practical Wisdom (3)
6ACP, 6ACT, CAHU, HHCP, TGEI
An examination of different ways of knowing, information literacy across disciplines, and the value of interdisciplinary inquiry. Students explore how knowledge is created/consumed and the relationships between theory of knowledge and information literacy.

IDH 2930 Selected Topics (0-3)
PR: IDH 2010
SMEL
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 (1-3)
6ACT, CAHU, HHCP, TGEC
Through the examination of particular historical periods, media or themes the course will examine the relationship between different types of creative cultural production (e.g., art, literature, drama, music, film) and society, politics, history & values.

IDH 3350 Natural Sciences Honors (3)
CANP
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 (3)
CAB
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 (3)
CAB
This course explores ethical issues related to selected topics such as Ethics of Technology, Ethics in Business, Bio-Medical Ethics, Personal Ethics Development.

IDH 4000 Honors Program Seminar: Major Works/Majors Issues (3)
PR: IDH 2010.
EMWP
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 (3)
PR: IDH 2010
6ACT, CAGC, TGED
Using regions in the Majority World as sites of study, this course explores how the interconnectedness of diverse spaces, places, and peoples constitute community, through the examination of locales, historical periods, and the people who inhabit them.

IDH 4910 Undergraduate Research (0-3)
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 (1-3)
PR: IDH 2010
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)
CPST
A program of independent research or study in areas of specific interest working under the supervision of a faculty mentor. Restricted to Honors College students.

IDH 4970 Honors Thesis (3)
6ACP, 6ACT, 6ACT, ELWP, WRIN
The development and public presentation of a senior thesis under the direction of a mentor. Course is taken for 2 semesters.
COURSE DESCRIPTIONS
(AS OF MARCH 1, 2019)

UNIVERSITY OF SOUTH FLORIDA 2019-20 UNDERGRADUATE CATALOG

IDH 5956 Honors Project (3)
   Advanced Honors Project. Repeatable up to 12 hours.

IDH 5975 Honors Thesis (3)
   Advanced Honors Thesis. Repeatable up to 12 hours.

IDS 1505 Introduction to Research in Beh. & Com. Sciences (1)
   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 2130 Biology For Learning Communities (3)
   This course is an introduction to major concepts of biology, focusing on evolution as the unifying concept in the field. Non-majors only.

IDS 2192 Global History and Politics Since 1945 (3)
   6ACT, 6ACT, TGED
   This interdisciplinary course, team-taught by the History Department and the School of Interdisciplinary Global Studies, introduces students to the major political, economic, and cultural events and forces that have shaped the world since 1945.

IDS 2231 Introduction to Global Sustainability (3)
   6ACT, GCPC, GCPC, TGED
   The course presents theory and practice of sustainability and discusses its three components: environment, society and economy.

IDS 2600 Applications of Research in Community Settings (1)
   Research in Community Settings introduces students to the principles of community-based participatory research and provides opportunities for students to observe and analyze the application of evidence-based practices in community settings.

IDS 2664 Social Science Perspectives I (3)
   Provides an overview of the evolution and global expansion of Western Civilization. Examines global problems of economic growth and development; geopolitical relations among nations and states, food supply and hunger, and environmental change.

IDS 2665 Social Science Perspectives II (3)
   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 (3)
   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 (3)
   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)
   UGR
   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 (1-3)
   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 (3)
   6ACT, 6ACT
   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 (3)
   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 3315 Global Issues, Challenges, and Perspectives (3)
   GCPC, GCPC
   This course provides students the opportunity to explore global issues, challenges, and perspectives broadly and participate in a high-impact practice. High-impact practices vary by section.

For Current Course Inventory, see https://www.systemacademics.usf.edu/course-inventory/
IDS 3662 Arts Connections (3)
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 (3)
6ACT, 6ACT
Offers multiple perspectives on the vision, theories, and practices of contemporary urban culture through the use of various literary genres. Examines the cultural realities of contemporary urban life, such as social stratification, discontinuity, anonymity and poverty; as well as its many potentials such as creative energy, diversity, and relational networks. Must have enough credit hours required for exit course admittance.

IDS 3947 Cooperative Internship (0-6)
Learning objectives determined by faculty and aligned with experiences in the workplace setting related to studentâ€™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)
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 4171 Playing With Words, Images, and Sounds: Multimodal Composing as Creative Thinking (3)
6ACT, 6ACT, TGEC
Students will develop creative thinking strategies by engaging in composing processes borrowed from different fields to construct multimodal texts.

IDS 4910 Community Research (1-4)
To provide students with a community related research experience.

IDS 4914 Advanced Undergraduate Research Experience (0-4)
UGR
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 4930 Selected Topics (1-3)
Course content determined by students' and instructor's interests and needs.

IDS 4934 Senior Capstone for BSAS/BGS (3)
6ACT, 6ACT, CPST, WRIN
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)
To provide students with a community internship experience.

IDS 4949 Cooperative Education, Alternating (0-3)
Full-time (40 hrs/wk) paid 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.

IDS 4955 International Community Research (1-4)
To provide students with an international community research experience.

IDS 4956 International Community Internship (1-4)
To provide students with an international community internship experience. Repeatable up to 8 credits.

IDS 5177 The Atelier, Its Management and History (3)
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)
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.

IDS 5921 Teaching Assistant Training (0)
Instruction in course design, including delivery, methodology, policies, and teaching strategies and methods.

IDS 5922 Preparing for College Teaching (0)
The focus is on teaching college classes, and doing it well. Best practices in a number of topics related to course design and delivery will be examined. The goal is to prepare you for college teaching.
### COURSE DESCRIPTIONS
(AS OF MARCH 1, 2019)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Prerequisites</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>INP 2101</td>
<td>Applied Psychology (3)</td>
<td></td>
<td>The application of psychological principles and the functions of psychologist in education, government, industry, and clinical practice.</td>
</tr>
<tr>
<td>INP 4004</td>
<td>Industrial Psychology (3)</td>
<td>PR: PSY 3213 with a grade of C or better SMLE</td>
<td>Applications of psychological principles to industry. Topics include: selection, training, motivation, job satisfaction, supervision, decision-making.</td>
</tr>
<tr>
<td>INR 1015</td>
<td>World Perspective (3)</td>
<td>SMEL, SMSS</td>
<td>An interdisciplinary study of the international system, major world regions and problems.</td>
</tr>
<tr>
<td>INR 2002</td>
<td>Introduction to International Relations (3)</td>
<td></td>
<td>Concepts and analytical tools applied to events such as politics among nations, control of foreign policies, types of actors, war and peace.</td>
</tr>
<tr>
<td>INR 3011</td>
<td>Globalization (3)</td>
<td></td>
<td>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.</td>
</tr>
<tr>
<td>INR 3018</td>
<td>World Ideologies (3)</td>
<td></td>
<td>A course which details and examines the ideologies of today's independent countries; analyzing them in their political, social, cultural and historical context.</td>
</tr>
<tr>
<td>INR 3033</td>
<td>International Political Cultures (3)</td>
<td></td>
<td>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.</td>
</tr>
<tr>
<td>INR 3038</td>
<td>International Wealth and Power (3)</td>
<td>SMLE</td>
<td>Introduction to the relationship between politics and economics, emphasizing the analysis of government policies in response to both domestic and international economic problems.</td>
</tr>
<tr>
<td>INR 3081</td>
<td>International Issues and Actors (3)</td>
<td></td>
<td>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.</td>
</tr>
<tr>
<td>INR 3084</td>
<td>International Terrorism (3)</td>
<td></td>
<td>A study of contemporary international terrorism and its causes, ranging from national liberation movements to networks of philosophical anarchists.</td>
</tr>
<tr>
<td>INR 3102</td>
<td>American Foreign Policy (3)</td>
<td></td>
<td>Analysis of the development and scope of United States foreign policy, emphasizing goals and objectives, policy formulation and implementation, themes and issues.</td>
</tr>
<tr>
<td>INR 3141</td>
<td>Global Security Policy (3)</td>
<td></td>
<td>A study of security issues, regional and global (such as proliferation, arms control, arms transfer) as they relate to contemporary international politics.</td>
</tr>
<tr>
<td>INR 3202</td>
<td>International Human Rights (3)</td>
<td>EMWP, SMLE</td>
<td>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.</td>
</tr>
<tr>
<td>INR 3336</td>
<td>Intelligence and U.S. Foreign Policy (3)</td>
<td></td>
<td>An examination of the role of intelligence and the intelligence community in U.S. foreign policy, with emphasis on the period since World War II.</td>
</tr>
<tr>
<td>INR 3955</td>
<td>Overseas Study (1-6)</td>
<td></td>
<td>A program of individual or group research in a foreign country.</td>
</tr>
<tr>
<td>INR 4035</td>
<td>International Political Economy (3)</td>
<td>EMWP</td>
<td>Analysis of the development and politics of the international economic system, focusing on questions of cooperation and conflict in trade, aid, and investment relationships.</td>
</tr>
<tr>
<td>INR 4083</td>
<td>Conflict in the World (3)</td>
<td>EMWP</td>
<td>An interdisciplinary course examining theories of conflict, conflict resolution processes and strategies, theories and peacemaking strategies, and the concept of Early Warning Systems related to the outburst of conflict.</td>
</tr>
<tr>
<td>INR 4254</td>
<td>Africa in World Affairs (3)</td>
<td>EMWP</td>
<td>An examination of Africa's place and role in world affairs, including an analysis of the impact of external forces, international relations in post-colonial Africa, the relations of African states with the major world powers, the U.N. and its agencies.</td>
</tr>
<tr>
<td>INR 4403</td>
<td>International Law (3)</td>
<td></td>
<td>Examines essential components of the international legal system; recognition; succession; sea, air and space law, treaties, diplomats, International Court of Justice; laws of war, etc. Introduces the student to legal reasoning as employed in the international context.</td>
</tr>
<tr>
<td>INR 4502</td>
<td>International Organizations (3)</td>
<td></td>
<td>Study of the operations and structure of international organizations and effects on world politics; background and achievement of the UN; regional organizations and multi-national corporations.</td>
</tr>
</tbody>
</table>

For Current Course Inventory, see [https://www.systemacademics.usf.edu/course-inventory/](https://www.systemacademics.usf.edu/course-inventory/)
INR 4900 Directed Readings (1-3)
A supervised program of intensive reading of interdisciplinary materials in areas of specific interest.

INR 4910 Directed Research (1-3)
A supervised program of interdisciplinary research in areas of specific interest.

INR 4931 Selected Topics (1-3)
Interdisciplinary studies with course content dependent on student demand and instructor's interest.

INR 4936 Senior Seminar (3)
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)
The purpose of the course is to promote the student's understanding of global international issues within a local and practical context.

INR 5012 Globalization (3)
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.

INR 5086 Issues in International Relations (3)
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 (3)
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 3111 Language and Cognitive Skills in ASL (3)
PR: INT 3270, INT 3112, ASL 3324
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 (3)
PR: ASL 2140C, ASL 2150C, ASL 4161C, ASL 4201C, ASL 4301C
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 (3)
PR: INT 3112, ASL 3324, INT 3270
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.

INT 3270 Interpreting Process and Skill Development (3)
PR: ASL 2140C, ASL 2150C, ASL 4161C, ASL 4201C, ASL 4301C
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)
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 3481 Specialized Terminology (3)
PR: INT 3270, INT 3112, ASL 3324
Students will build on conversational skills from previous ASL courses. The focus will be the settings interpreters work and sign vocabulary related to these specialized settings. Topics include K-12 and Post-secondary Education, Medical, Mental Health.

INT 3945 Interpreting Practicum 1 (3)
PR: INT 3270, INT 3112, INT 3004, ASL 3324
Students will observe professional interpreters working in a variety of settings. They will learn specialized vocabulary, discuss ethical issues, develop rapport with Deaf consumers, and determine language usage in a variety of settings.
INT 4190 Senior Seminar in Interpreter Training (3)  
PR: INT 3004  
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 (3)  
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 III (3)  
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 (3)  
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)  
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 (3)  
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 (3)  
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)  
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)  
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)  
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)  
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)  
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 4942 Internship in Deaf Studies (3)  
Supervised field experience in a social service agency with children and/or adults who are deaf or hard of hearing or student teaching placement in high school American Sign Language (ASL) classroom. Requires a minimum of 90 hours of field placement.

INT 4947 Interpreting Practicum II (3)  
PR: INT 4206, INT 3004  
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.
### COURSE DESCRIPTIONS

**UNIVERSITY OF SOUTH FLORIDA 2019-20 UNDERGRADUATE CATALOG**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Course Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ISC 1004</td>
<td>Integrated Natural Sciences I: Science that Matters (3)</td>
<td>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.</td>
</tr>
<tr>
<td>ISC 1005</td>
<td>Integrated Natural Sciences II: Science that Matters (3)</td>
<td>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.</td>
</tr>
<tr>
<td>ISC 3403C</td>
<td>Physical Science Fundamentals for Teachers (4)</td>
<td>This course is develops future science teachers’ knowledge of the physical (chemistry, and physics) sciences commonly found in 5-9 school curricula, with a focus on effective research based physical sciences pedagogy.</td>
</tr>
<tr>
<td>ISM 3011</td>
<td>Information Systems in Organizations (3)</td>
<td>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.</td>
</tr>
<tr>
<td>ISM 3113</td>
<td>Systems Analysis and Design (3)</td>
<td>PR: ISM 3011 with a minimum grade of C CPR: ISM 3232 with a minimum grade of 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.</td>
</tr>
<tr>
<td>ISM 3232</td>
<td>Business Application Development (3)</td>
<td>CPR: ISM 3011 with a grade of &quot;C&quot; 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.</td>
</tr>
<tr>
<td>ISM 3431</td>
<td>Operations and Supply Chain Processes (3)</td>
<td>PR: ACG 2071 with a minimum grade of C- or QMB 2100 with a minimum grade of C- or STA 2023 with a minimum grade of C- or STA 2122 with a minimum grade of 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.</td>
</tr>
<tr>
<td>ISM 4041</td>
<td>Global Cyber Ethics (3)</td>
<td>PR: ISM 3011 with a minimum grade of C 6ACT, GCPC, GCPC, TGED This course provides students an in-depth look at the social costs and moral problems that have arisen by the expanded use of the Internet, and offers up-to-date legal and philosophical perspectives on the global scale for the business community.</td>
</tr>
<tr>
<td>ISM 4141</td>
<td>Java Programming (3)</td>
<td>PR: ISM 3232 with a minimum grade of B Utilizes Java to provide hands-on experience in working with object-oriented programming concepts and techniques. Covers a variety of application features including GUIs, database connectivity, client-server computing, and web applications.</td>
</tr>
<tr>
<td>ISM 4153</td>
<td>Enterprise Resource Planning Systems (3)</td>
<td>PR: ISM 3011 with a minimum grade of 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.</td>
</tr>
<tr>
<td>ISM 4212</td>
<td>Database Design and Administration (3)</td>
<td>PR: ISM 3113 with a grade of &quot;C&quot; 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.</td>
</tr>
</tbody>
</table>
ISM 4213 Advanced Database Administration (3)  
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)  
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)  
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)  
PR: ISM 3232 with a grade of "B" or better.  
This course presents an object-oriented approach to software development of business information systems. Students will learn to create object models of the business world and to develop information system designs based on these objects.

ISM 4252 Mainframe Technologies (3)  
PR: ISM 3232 or equivalent  
Mainframe Technologies is an introduction to mainframe and operating environments for business programming and design. Students will apply problem solving using programming in a Mainframe development environment.

ISM 4300 Managing Information Resources (3)  
PR: ISM 4212 with a minimum grade of C and ISM 4220 with a minimum grade of C or ISM 4402 with a minimum grade of C)  
Current issues in information systems management focusing on managing computer resources and social issues such as ethics, privacy, and legal issues including intellectual property.

ISM 4314 Project Management (3)  
PR: ISM 3011 with a minimum grade of C  
This course in project management covers the basic principles, processes, and tools of modern project management. Principles and areas of the Project Management Body of Knowledge (PMBOK) are covered utilizing information technology examples.

ISM 4323 Information Security and IT Risk Management (3)  
PR: ISM 3011 with a minimum grade of C  
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 4381 Information Systems for Healthcare Analytics (3)  
PR: ISM 3011 with a minimum grade of C  
An overview of the application and analytics applied to the various information systems used in today’s health care industry. Students will examine the processes used in the acquisition, application, analysis, and evaluation of Health Information Systems.

ISM 4382 Global Information Systems (3)  
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)  
PR: QMB 3200 with a minimum grade of C- and (ISM 3011 with a minimum grade of C or ISM 3113 with a minimum grade of C)  
Study of quantitative analysis tools and their use in organizational decision making. Emphasis on a structured approach to making common business decisions, demonstrating several forms of mathematical modeling and other management science techniques.

ISM 4402 Business Intelligence (3)  
PR: ISM 4212, with a grade of C or better  
For undergraduate information systems students, as well as other interested business students. The course covers the rapidly emerging business intelligence and data mining technologies that are likely to play a strategic role in business organizations.

ISM 4432 Software Testing (3)  
PR: ISM 3113  
The quality assurance of software systems requires rigorous methods for the verification of requirements, design, and implementation. This course surveys the best practices of software testing and explores the latest research ideas.
For Current Course Inventory, see https://www.systemacademics.usf.edu/course-inventory/
ISS 4900 Directed Readings (1-3)
A supervised program of intensive reading of interdisciplinary materials in areas of specific interest.

ISS 4910 Directed Research (1-3)
A supervised program of interdisciplinary research in areas of specific interest.

ISS 4935 Seminar in the Social Sciences (3)
PR: ISS 3010
CPST, EMWP, GCPC, GCPC
The seminar which caps the interdisciplinary major. Weds personal curiosity with the application of theoretical models to research on salient social issues.

ITA 1120 Beginning Italian I (4)
The first course in the study of elementary Italian. Emphasis is on the development of basic skills in comprehension, speaking, and reading.

ITA 1121 Beginning Italian II (4)
The second course in the study of elementary Italian. Emphasis is on the development of basic skills in comprehension, speaking and reading.

ITA 2200 Italian III (3)
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)
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 (3)
PR: ITA 2200
This advanced-level Italian course belongs to the third level of modules leading to proficiency. It aims at consolidating students' knowledge of Italian grammar and vocabulary with the ultimate goal of fostering accuracy in Italian conversation.

ITA 2241 Italian Conversation II (3)
PR: ITA 2241
This advanced-level Italian course belongs to the third level of modules leading to proficiency. It aims at consolidating students' knowledge of Italian grammar and vocabulary with the ultimate goal of fostering accuracy in Italian conversation.

ITA 3234 Reading and Writing in Italian (3)
PR: Beginning Italian I & II; & two of ITAIII, ITAIV, ITA 2240, ITA 2241, or ITA 3420
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)
A fundamental composition course for students who have completed ITA 2200.

ITA 3470 Overseas Study (1-6)
An intensive study-travel project in Italy.

ITA 4930 Special Topics (1-3)
This course focuses on any area of special interest of students or faculty in Italian studies. The topics and hours may vary by semester, and may be taught in either English or Italian.

ITT 3504 Italian Culture Through Film (3)
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 Italian Americans on Screen (3)
The focus of this course is on the representation of Southern Italy in a selection of novels, films, memoir writing, and music and on the history of the Italian diaspora â€“ mainly made of Southerners migrated to the United States.

ITT 4531 Italian Food in Film (3)
GCPC, GCPC
This course explores Italian food represented in different cinematic texts and its connection to culture, economics, and politics in Italy and beyond.

ITW 4100 Survey of Italian Literature I (3)
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)
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)
Selected topics in Italian literature.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Prerequisites</th>
<th>Description</th>
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<tbody>
<tr>
<td>JOU 2100</td>
<td>Beginning Reporting (3)</td>
<td>PR: MMC 2100 and MMC 3602. Basic instruction in news judgment, sources of</td>
<td>News judgment, sources of news, newsgathering, and newswriting techniques for various media. Typing ability is required.</td>
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<tr>
<td>JOU 3101</td>
<td>Advanced Reporting (3)</td>
<td>PR: JOU 2100 or RTV 3301 (RTV majors only), PHI 1103 and POS 2041. CPR:</td>
<td>Reporting and writing the more complex and specialized story. Techniques of investigative and analytical reporting, including ethical and legal considerations.</td>
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<td>JOU 4201</td>
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<tr>
<td>JOU 3302</td>
<td>Critical Writing: Editorials, Reviews,</td>
<td>PR: JOU 3101 and JOU 4201. Interpretive and opinion writing for the mass</td>
<td>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.</td>
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<td>Columns (3)</td>
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<tr>
<td>JOU 3308</td>
<td>Magazine Article and Feature Writing (3)</td>
<td>PR: CRW 2100 and JOU 2100. Planning, researching, writing, and marketing</td>
<td>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.</td>
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<td>articles for general and special interest magazines and newspaper supplements</td>
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<td>JOU 3424</td>
<td>Reporting Practicum (1)</td>
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<td>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.</td>
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<tr>
<td>JOU 4181</td>
<td>Public Affairs Reporting (3)</td>
<td>PR: JOU 3101 or RTV 3301 (RTV majors only), POS 2041 and POS 2112 or POS 3142.</td>
<td>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.</td>
</tr>
<tr>
<td>JOU 4212</td>
<td>Magazine Design and Production (3)</td>
<td>PR: JOU 4201. Theoretical and practical application of design principles</td>
<td>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>
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<td>for magazines. Design software. Study of visual design, page architecture,</td>
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<td>typography, color and illustrations. Integration of design elements in the</td>
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<td>design of magazine covers. Design elements specific to magazine and production</td>
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<tr>
<td>JOU 4213</td>
<td>Newspaper and News Publication Design (3)</td>
<td>PR: JOU 4201. Theoretical and practical applications of newspaper and news</td>
<td>Theoretical and practical applications of newspaper and news publication design, including typography, graphics, graphics software and electronic picture editing. Exercises in design for newspapers and news publications in both print and electronic formats.</td>
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<td>publication design, including</td>
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<td>typography, graphics, graphics software and electronic picture editing.</td>
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<tr>
<td>JOU 4941</td>
<td>Editing Practicum (1)</td>
<td>PR: JOU 4201. Practical experience outside the classroom where the student</td>
<td>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.</td>
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<td>practitioner. Periodic written and oral reports to the faculty member</td>
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<tr>
<td>JOU 4944</td>
<td>Magazine Practicum (1)</td>
<td>PR: JOU 4201. Practical experience outside the classroom where the student</td>
<td>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.</td>
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<tr>
<td>JOU 5105</td>
<td>Newswriting and Editing (3)</td>
<td>Introduction to the basics of gathering, writing, and editing the news, with</td>
<td>Introduction to the basics of gathering, writing, and editing the news, with an emphasis on practical assignments done under professional conditions and standards. Discussions, readings emphasize the larger context and implications of news.</td>
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<td>an emphasis on practical assignments done under professional conditions and</td>
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<td>standards. Discussions, readings emphasize the larger context and implications</td>
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<td>JOU 5344</td>
<td>Multimedia Journalism (3)</td>
<td>The course is designed to bring components of print, web and broadcast</td>
<td>The course is designed to bring components of print, web and broadcast writing together to develop skills for and understanding of the multimedia environment. It is restricted to majors and not repeatable for credit.</td>
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<td>writing together to develop skills for and understanding of the multimedia</td>
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<td>environment.                    The course is designed to bring components of print,</td>
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<td>and not repeatable for credit.</td>
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<tr>
<td>JPN 1120</td>
<td>Modern Japanese I (4)</td>
<td>An intensive study of basic skills: pronunciation, listening comprehension,</td>
<td>An intensive study of basic skills: pronunciation, listening comprehension, speaking, and some composition.</td>
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<td>speaking, and some composition.</td>
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<tr>
<td>JPN 1121</td>
<td>Modern Japanese II (4)</td>
<td>PR: JPN 1120 or equivalent. A continuation of JPN 1120. More sophisticated</td>
<td>A continuation of JPN 1120. More sophisticated oral/aural skills are attained. Basic reading skills are acquired.</td>
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<td>oral/aural skills are attained. Basic reading skills are acquired.</td>
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<td>COURSE</td>
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<tr>
<td>JPN 2220 Modern Japanese III (4)</td>
<td>PR: JPN 1121 or equivalent. Continuing study to attain basic proficiency in Japanese.</td>
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<td>JPN 2221 Modern Japanese IV (4)</td>
<td>PR: JPN 2220 or equivalent. Continuation of JPN 2220.</td>
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<tr>
<td>JPN 3400 Japanese V (3)</td>
<td>PR: JPN 2221 with a minimum grade of C. This course is the fifth course in the Japanese language sequence and is designed to integrate all the language skills. It is also intended to develop communication strategies, cultural awareness and connections.</td>
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<tr>
<td>JPN 3401 Japanese VI (3)</td>
<td>PR: JPN 3400 with a minimum grade of C. This course is the sixth course in the Japanese language sequence and designed to guide your Japanese from a low intermediate level to a high intermediate level by integrating all the language skills.</td>
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<tr>
<td>JPN 4020 Japanese Calligraphy (1)</td>
<td>PR: JPN 1120, with a minimum grade of C. This course provides students with the correct order of strokes in kanji writing, the foundation for appreciating calligraphic letters used for commercial purposes as well as subjects of fine arts practiced in Japan today and in the past.</td>
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<td>JPN 4905 Directed Study (1-5)</td>
<td>Permits study options in Japanese not available in regularly scheduled curriculum at departmental discretion.</td>
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<tr>
<td>JPN 4930 Selected Topics (1-3)</td>
<td>Course permits study options in Japanese not available in the regularly scheduled curriculum at departmental discretion.</td>
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<tr>
<td>JPT 4957 Japan Study Program: Culture, History and Society (3)</td>
<td>This intensive course is designed to facilitate a successful knowledge base of Japan. This course seeks to nurture students’ multicultural awareness which is needed to successfully navigate in today’s society.</td>
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<tr>
<td>LAE 4314 Teaching Writing in the Elementary School, Grades K-6 (3)</td>
<td>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>
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<td>LAE 4323 Methods of Teaching English: Middle School (3)</td>
<td>Whole language methods of integrating reading, writing, speaking, listening, viewing, and critical thinking activities into a literature-based program for middle school students.</td>
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<tr>
<td>LAE 4332 Traditional English Grammar for Teachers (3)</td>
<td>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>
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<tr>
<td>LAE 4335 Methods of Teaching English: High School (3)</td>
<td>CR: LAE 4464. Whole language methods of integrating reading, writing, speaking, listening, viewing, and critical thinking activities into a literature-based program for high school students.</td>
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<tr>
<td>LAE 4414 Children’s and Young Adult Literature: Diverse Portrayals of the Human Experience (3)</td>
<td>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.</td>
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COURSE DESCRIPTIONS
(AS OF MARCH 1, 2019)

UNIVERSITY OF SOUTH FLORIDA 2019-20 UNDERGRADUATE CATALOG

LAE 4469 Teaching World Literature to Middle and Secondary Students (3)
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)
This course provides students an opportunity to demonstrate their ability to plan, deliver instruction, and reflect upon the effectiveness of their teaching in secondary school English/Language Arts classrooms. Course is restricted to majors.

LAE 4936 Senior Seminar in English Education (3)
CPST
Synthesis of teacher candidate’s courses in complete college program.

LAE 4940 Internship: English Education (1-12)
One full semester of internship in a public or private school. Intern takes Senior Seminar in English Education concurrently. In special programs where the intern experience is distributed over two or more semesters, student will be registered for credit which accumulates from 9 to 12 semester hours.

LAE 5462 Young Adult and World Literature for New Teachers (3)
A study of the types of literature read by adolescents, including literature representative of other cultures, with emphasis upon the criteria for the choice of good books and knowledge of available books and teaching materials.

LAE 5862 Classroom Communication in English Education (3)
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)
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 (3)
CAGC, HHCP, SMEL
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 (3)
Through the use of films and readings, the course introduces the broad sweep of Latin American history from the pre-Columbian period to today. Emphasis is placed on the social-cultural context to understand the peoples and events that have shaped Latin America.

LAH 3130 Colonial Latin America (3)
A study of the Spanish and Portuguese Colonial empires in the New World from 1492-1830.

LAH 3200 Modern Latin America (3)
GCPC, GCPC
A study of the emergence of the Latin American states. The course will examine developments in Latin America during the nineteenth and twentieth centuries. Special attention is given to the Third World character of the region.

LAH 3430 History of Mexico (3)
Mexican history from pre-Columbian cultures to the twentieth century. Emphasis falls on the colonial political economy, social development, the wars of independence, development of the 19th century Mexican state and the Mexican revolution.

LAH 3470 History of the Caribbean (3)
A thematic study of the circum-Caribbean from pre-Columbian cultures to the twentieth century, emphasizing the development of the Caribbean political economy with emphasis on monoculture, plantation society, and colonial/neo-colonial relationships.

LAH 3480 History of Cuba (3)
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.

LAH 3630 Modern Brazil (3)
Political, economic and cultural history of Brazil from colonization to the present with emphasis on the twentieth century. Topics include colonization, slavery, independence, nation building, economic development, the Cold War, race, class and gender.

For Current Course Inventory, see https://www.systemacademics.usf.edu/course-inventory/
LAH 3743 Spanish America in the Age of Revolution (3)
This course investigates the Age of Revolution in Spain's American colonies from 1750-1848 that followed a wave of revolutionary activity in Europe and the forced resignation of the Spanish monarch by Napoleon Bonaparte.

LAS 3002 Latin America (3)
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 (3)
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 (3)
CAGC, HHCP
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 (1-3)
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 09 credits.

LAS 4940 Internship in Latin American and the Caribbean (1-9)
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)
An introductory course in Latin grammar with appropriate readings.

LAT 1121 Beginning Latin II (4)
PR: LAT 1120 or equivalent.
An introductory course in Latin grammar with appropriate readings.

LAT 2220 Intermediate Latin (4)
PR: LAT 1121 or equivalent.
Readings in Latin at an intermediate level.

LAT 2221 Intermediate Latin II (4)
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 210 Leadership Fundamentals (3)
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)
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)
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)
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)
PR: LDR 2010 or LDR 3331, with a minimum grade of C-.
6ACM, SMCC
This course involves the transference of leadership theories into practice. It provides a practical forum for students to examine and develop personal leadership skills.

LDR 3280 Leadership in the Political Context (3)
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 3301 Strategic Leadership in the Public Sector (3)
This course explores leadership principles and effective practices in the public and non-profit sectors. Course content will focus on strategic management, planning, and evaluation in the public services.
For Current Course Inventory, see https://www.systemacademics.usf.edu/course-inventory/
LIN 4609 Language and Technology (3)
This course covers linguistic and discourse-level variation that occurs in different or genres of online communication, including social networking sites, blogs and micro-blogs, and online reviews.

LIN 4671 Traditional English Grammar (3)
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)
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 4701 Psycholinguistics (3)
General introduction to the theory and methodology of psycholinguistics at the undergraduate level.

LIN 4721 Second Language Acquisition (3)
GCPC, GCPC
General introduction to second language acquisition theories at the undergraduate level including characteristics of learner language.

LIN 4903 Directed Reading (1-3)
Readings in special topics.

LIN 4930 Selected Topics (1-3)
Course content depends upon students' needs and instructor's interest and may range over the entire field of linguistics.

LIN 5700 Applied Linguistics (3)
Analysis of the phonological, morphonological, and syntactic features of English as a basis for linguistic application to problems of English language acquisition by non-native speakers.

LIS 2005 Information Literacy (3)
6ACT, CASB, TGEI
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)
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)
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)
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)
Covers the history, development, and current state of computer hardware and software. Also examines programming basics, networks, the internet and web, emerging technologies, information industries, and careers. Majors only or permission of instructor.

LIS 3361 World Wide Web Page Design and Management (3)
Covers a variety of strategies in designing and maintaining effective World Wide Web pages for publication on the Internet.

LIS 3783 Information Architecture (3)
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 4029 Professional & Technical Comm. for Analysts (3)
Professional and Technical Communication for Analysts introduces students to how they can critically think about risks, threats, and uncertainties, to write and brief effectively and to work productively on individual and group projects.

LIS 4204 Information Behaviors (3)
PR: LIS 3261
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 4273 Advanced Statistics and Analytics (3)
PR: STA 2023 or STA 2122
Building on elementary statistics, this course focuses on the assumptions, mechanisms, and data science applications for advanced statistical topics, such as logistic regression, maximum likelihood, bootstrapping, nonparametrics, & Bayesian methods.

LIS 4317 Introduction to Visual Analytics (3)
PR: LIS 4800 with minimum grade of C-, LIS 4273 with minimum grade of C-
This course introduces the science of analytical reasoning facilitated by combining statistical analysis with visualizations methods and techniques to promote effective understanding, reasoning and decision-making involving data.

LIS 4365 Web Design Technologies (3)
PR: LIS 3361
Exploration of advanced applications of key Web Technologies. Majors only or permission of instructor.

LIS 4370 R Programming for Data Science (3)
PR: LIS 4800, LIS 4273
This course teaches the use of R, a programming language and software environment for statistical computing and graphics, in applied Data Science. According to InfoWorld, R is the preferred statistical application among data scientists.

LIS 4380 Information and Social Media (3)
Focusing on social media immersion this course explores the roles of people, information, technology and social structures to discover new ways information can contribute to personal goals, an organization’s success, and societal inclusion in general.

LIS 4414 Information Policy and Ethics (3)
Examinates 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 4477 Clinical Decision Support (3)
This course examines how to take advantage of the ever increasing amounts of data available to healthcare professionals and utilize systems for knowledge discovery and clinical decision support.

LIS 4482 Networks and Communication (3)
PR: LIS 3353.
This course is designed to provide a solid foundation in data communication and networking. Topics include local area networks (LANs), wide area networks (WANs), protocols used to implement networks & management issues of IT professionals. Majors or PI.

LIS 4671 Introduction to Intelligence Studies (3)
This course will introduce the students to the field of intelligence studies and to the U.S. intelligence community and its processes and practices.

LIS 4672 Critical Thinking & Methods for Intel Analysis (3)
This course will introduce students to critical thinking and sensemaking as it applies to intelligence analysis, providing connections between the study of intelligence analysis and human judgment and decision-making.

LIS 4673 Open Source Intelligence (OSINT) (3)
This course introduces students to the collection and integration of publicly available information and its uses in addressing specific information or intelligence requirements.

LIS 4761 Introduction to Data & Text Mining (3)
PR: LIS 4800, LIS 4273
Introduction to the Data Mining provides an in-depth study of what data mining is, how it is used, and how it has evolved, including different data types and applications of new technologies.

LIS 4762 Geographic Information Systems for Data Science (3)
PR: LIS 4800
This course introduces the basic principles and techniques of Geographic Information Systems (GIS) with their applications to Data Science, and provides hands on experience with GIS analysis.

LIS 4776 Health Information Technology (3)
The course focuses on students applying the IT knowledge to address real-life problems in the health community. Students address various topics with emerging technical solutions that can help improve health service, and health decision making.

LIS 4779 Health Information Security (3)
Examines soft and technological threats to protected heath information and methods for reducing these threats with a focus on HIPAA compliance.

LIS 4785 Introduction to Health Informatics (3)
Introduction to core concepts and practices in the interdisciplinary field of Health Informatics.

LIS 4800 Introduction to Data Science (3)
Introduction to Data Science will provide an overview of an up-and-coming field in the information sciences working with large amounts of data as it pertains to the collection, organization, analysis, visualization and preservation of that data.
COURSE DESCRIPTIONS

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LIS 4805 Predictive Analytics (3)
PR: LIS 4800 with a minimum grade of C-, LIS 4273 with a minimum grade of C-, LIS 4317 with a minimum grade of C-, LIS 4761 with a minimum grade of C-, LIS 4370 with a minimum grade of C-
This course will introduce the students to predictive analytics and analysis of probabilities and future trends using statistical algorithms and machine-learning tools.

LIS 4930 Selected Topics in Information Studies (3)
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)
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)
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)
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)
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)
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)
Students will select and evaluate multicultural and special population materials for effective use in youth services and programs in public and school libraries.

LIS 5631 Health Information Sources (3)
PR: LIS 6603
Introduction to printed and electronic sources of health information. Course material is intended for those interested in medical, public, or academic libraries where clients need health-related information.

LIS 5802 Information Analytics (3)
PR: STA 2023 or STA 2122 or QMB 2100
This course teaches the basics of data science, visualization, and the use of R, a programming language and software environment for statistical computing and graphics.

LIS 5937 Selected Topics in Library Studies (1-4)
Covers a variety of topics in such areas as collection development, reference services, technical services, and administration.

LIT 2000 Introduction to Literature (3)
6ACM, 6ACP, 6ACT, 6ACT, CAHU, SGEH, SMEL, SMHU, SPUH
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 (3)
6ACP, 6ACT, 6ACT, CAHU
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 (3)
6ACT, 6ACT, CAHU, HHCP
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 (3)
6ACM, 6ACT, 6ACT, CAHU, SGEH, SMEL, SMHU
A study of the poem as literary form; approached from an historical perspective though not restricted to any historical period. Will not count toward the English major.

LIT 2040 Introduction to Drama (3)
6ACP, 6ACT, 6ACT, CAHU
This course will introduce students to the literary form of drama as well as to the various "schools" of literary criticism. Will not count toward the English major.

For Current Course Inventory, see https://www.systemacademics.usf.edu/course-inventory/
### LIT 3022 Modern Short Prose (3)
**PR:** ENC 1101 and ENC 1102.
This course for English majors and minors explores modern short prose in World, British, and American literatures; genres include the short story, the long short story, the short novel, and the essay. Not repeatable.

### LIT 3031 Survey of Poetry (3)
**SMCD**
A chronological sampling of the major poems written in English from the Middle Ages to the present. Recommended as the first literature course in the CRW (Poetry emphasis) Option.

### LIT 3043 Modern Drama (3)
**SMCD**
A study of such modern and contemporary dramatists as Ibsen, Strindberg, Chekhov, Pirandello, Shaw, O’Neill, Pinter, Stoppard, Brecht, Beckett, and Ionesco.

### LIT 3093 Contemporary Literature (3)
**SMCD**
An introduction to the fiction, poetry, and drama written since 1945—American, British, Continental, or Multicultural. Focus may be on one, two, or all three genres or on works from any combination of nationalities.

### LIT 3101 Literature of the Western World Through the Renaissance (3)
**6ACP**
A study in English of the great works of Western Literature from its beginnings through the Renaissance, including the Bible, Homer, Sophocles, Plato, Euripides, Virgil, Cicero, Dante, Petrarch, Machiavelli, and Rabelais, among others.

### LIT 3102 Literature of the Western World Since the Renaissance (3)
**6ACP**
A study in English of the great works of Western Literature from the Neoclassic to the Modern Period, including such writers as Moliere, Racine, Voltaire, Dostoevsky, Chekhov, Ibsen, Kafka, Gide, Sartre, and Camus, among others.

### LIT 3103 Great Literature of the World (3)
**6ACP, 6ACT, 6ACT, ELWP, EMWP, WRIN**
A survey of world literature including samples from the ancient and modern era, Western and Eastern traditions, male and female writers, and various ethnic cultures. Focus on values/ethics, race, ethnicity and gender; thinking and writing skills. Will not count toward the English major.

### LIT 3144 Modern European Novel (3)
**6ACT, 6ACT**
A study of the Modern European novel in translation as it developed from the nineteenth century to the present, including such writers as Dostoevsky, Flaubert, Kafka, Hesse, Camus, and Solzhenitsyn.

### LIT 3155 Twentieth-Century Literature (3)
**6ACP, 6ACT, 6ACT, ELWP, EMWP, WRIN**
Examines major literary works of the 20th Century written in English and explores ways authors have expressed the age, its great issues and conflicts, in order to gain an historical perspective that will help relate the present to the recent past. Will not count toward the English major.

### LIT 3301 Cultural Studies and the Popular Arts (3)
**6ACP, 6ACT, 6ACT, ELWP, EMWP, WRIN**
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. May count once toward the major.

### LIT 3374 The Bible As Literature (3)
**6ACT, 6ACT, EMWP, WRIN**
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.

### LIT 3383 The Image of Women in Literature (3)
**6ACP, 6ACT, 6ACT, ELWP, EMWP, WRIN**
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.

### LIT 3410 Religious and Philosophical Themes (3)
**6ACT, TGEI**
Theological and philosophical ideas, allusions, and symbols in the writings of Dostoevsky, Nietzsche, Mann, Joyce, Eliot, Camus, Sartre, among others.

### LIT 3451 Literature and the Occult (3)
**6ACP, 6ACT, 6ACT, ELWP, EMWP, WRIN**
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.
COURSE DESCRIPTIONS
(AS OF MARCH 1, 2019)

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LIT 3930 Special Topics in English Studies (3)
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.

LIT 4233 Postcolonial Literature (3)
This course is a critical introduction to Postcolonial Literature. We will strive to understand the colonial encounter as it has shaped and continues to shape global modernity and some of the new literature in its cultural and historical contexts.

LIT 4386 British and American Literature by Women (3)
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.

LIT 4804 Literature as Cultural Study (3)
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.

LIT 4930 Selected Topics in English Studies (1-3)
The content of the course will be governed by student demand and instructor interest. It will examine in depth a recurring literary theme or the work of a small group of writers. Special courses in writing may also be offered under this title. May be taken twice for credit with different topics.

LNW 4501 Seneca and Roman Philosophy (3)
Readings in the philosophic writings of Lucius Annaeus Seneca, together with an examination of Stoic, Epicurean, and Eclectic thought.

LNW 4644 Cicero (3)
Readings in the epistles of Cicero.

LNW 4654 Horace (3)
Readings in the Odes and Epodes of Horace; study of the Ode's tradition.

LNW 4900 Directed Reading (1-4)

LNW 4930 Selected Topics (3)
Study of an author, movement, or theme.

LNW 5900 Directed Reading (1-4)

LNW 5934 Selected Topics (4)
Study of an author, movement, or theme.

MAA 4211 Intermediate Analysis I (3)
PR: MAC 2313 and MAS 3105.
6AMT, 6AMT
Sequences, series, metric spaces, continuity, differentiation.

MAA 4212 Intermediate Analysis II (3)
PR: MAA 4211.
6AMT, 6AMT
Riemann-Stieltjes integration, uniform convergence, and related topics.

MAA 4402 Complex Variables (3)
PR: MAP 2302
6AMT, 6AMT
Complex numbers, Cauchy-Riemann equations, analytic and conformal functions, power series, Cauchy Theorem, Cauchy Integral Formula, residue theory.

MAA 5306 Introduction to Real Analysis (3)
PR: MAA 4211.
A course in Real Analysis. Topics include differentiation, Riemann-Stieltjes integrals, uniform convergence, Fourier series, and special functions.

MAA 5307 Real Analysis I (3)
PR: MAA 5306.
A graduate course in real analysis. Topics include Lebesgue measure and integration, Lebesgue differentiation, convergence theorems, absolute continuity, the Fundamental Theorem of Calculus, and the basics of Lp spaces.

MAA 5405 Applied Complex Analysis (3)
Complex numbers, analytic and harmonic functions. Series. Contour integrals, residue theory. Conformal mappings. (A survey course emphasizing techniques and applications.)

MAC 1105 College Algebra (3)
PR: C (2.0) or better in MAT 1033, or 520 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.
6AMM, 6AMP, 6AMT, 6AMT, MACA, SGEM, SMEL, SMMA, SPMA
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.
# COURSE DESCRIPTIONS

(AS OF MARCH 1, 2019)

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For Current Course Inventory, see [https://www.systemacademics.usf.edu/course-inventory/](https://www.systemacademics.usf.edu/course-inventory/)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Prerequisites</th>
<th>Corequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAC 1114</td>
<td>Precalculus Trigonometry (2)</td>
<td>C (2.0) or better in MAC 1105, or 570 or better SAT Math Score, or 24 or better ACT Math Score</td>
<td>CPR: MAC 1140, 6AMM, 6AMT, 6AMT</td>
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<tr>
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<td></td>
<td>Ages, trigonometric functions, properties and graphs of trigonometric functions, right triangles, laws of sines and cosines, polar coordinates.</td>
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<tr>
<td>MAC 1140</td>
<td>Precalculus Algebra (3)</td>
<td>C (2.0) or better in MAC 1105, or 570 or better SAT Math Score, or 24 or better ACT Math Score.</td>
<td>CPR: MAC 114, 6AMM, 6AMP, 6AMT, 6AMT</td>
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<td></td>
<td>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.</td>
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<tr>
<td>MAC 1147</td>
<td>Precalculus Algebra and Trigonometry (4)</td>
<td>C (2.0) or better in MAC 1105, or 570 or better SAT Math score, or 24 or better ACT Math score, or 60 or better College-Level Math CPT score.</td>
<td>6AMM, 6AMP, 6AMT, 6AMT, CAMA, SMEL, SMMA</td>
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<td></td>
<td>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.</td>
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<tr>
<td>MAC 2233</td>
<td>Business Calculus (3)</td>
<td>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 610 or better SAT Math score, or 26 or better ACT Math score, or 78 or better College-Level Math CPT score.</td>
<td>6AMM, 6AMP, 6AMT, 6AMT, CAMA, SMEL, SMMA</td>
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<td></td>
<td>Linear equations and functions, mathematics of finance, differentiation and integration of algebraic, exponential and logarithmic functions with applications to business, finance and economics.</td>
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<tr>
<td>MAC 2241</td>
<td>Life Sciences Calculus I (3)</td>
<td>C (2.0) or better in MAC 1147, or 670 or better SAT Math score, or 29 or better ACT Math score, or 90 or better College-Level Math CPT score.</td>
<td>6AMM, 6AMT, 6AMT, CAMA, SMEL, SMMA</td>
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<td></td>
<td>No credit for math majors. Differentiation and integration of algebraic, trigonometric, exponential, and logarithmic functions with applications to life sciences.</td>
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<tr>
<td>MAC 2242</td>
<td>Life Sciences Calculus II (3)</td>
<td>C (2.0) or better in MAC 2241.</td>
<td>6AMM, 6AMT, 6AMT, CAMA</td>
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<td></td>
<td>Techniques of integration, differential equations, functions of several variables, series and Taylor polynomials.</td>
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<tr>
<td>MAC 2281</td>
<td>Engineering Calculus I (4)</td>
<td>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 670 or better SAT Math score, or 29 or better ACT Math score, or 90 or better College-Level Math CPT score.</td>
<td>6AMM, 6AMT, 6AMT, CAMA</td>
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<td>Differentiation, limits, differentials, extremes, indefinite integral. No credit for mathematics majors.</td>
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<tr>
<td>MAC 2282</td>
<td>Engineering Calculus II (4)</td>
<td>C (2.0) or better in MAC 2281.</td>
<td>6AMM, 6AMT, 6AMT, CAMA</td>
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<td>Definite integral, trigonometric functions, log, exponential, series, applications.</td>
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<tr>
<td>MAC 2283</td>
<td>Engineering Calculus III (4)</td>
<td>C (2.0) or better in MAC 2282.</td>
<td>6AMM, 6AMT, 6AMT</td>
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<td>Techniques of integration, numerical methods, analytic geometry, polar coordinates, Vector algebra, applications.</td>
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<tr>
<td>MAC 2311</td>
<td>Calculus I (4)</td>
<td>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 670 or better SAT Math score, or 29 or better ACT Math score, or 90 or better College-Level Math CPT score.</td>
<td>6AMM, 6AMP, 6AMT, CAMA, SGEM, SMEL, SPMA</td>
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<td>Differentiation, limits, differentials, extremes, indefinite integral.</td>
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<tr>
<td>MAC 2312</td>
<td>Calculus II (4)</td>
<td>C (2.0) or better in MAC 2311.</td>
<td>6AMM, 6AMP, 6AMT, CAMA</td>
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<td>Antiderivatives, the definite integral, applications, series, log, exponential and trig functions.</td>
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<tr>
<td>MAC 2313</td>
<td>Calculus III (4)</td>
<td>C (2.0) or better in MAC 2312.</td>
<td>6AMM, 6AMT, 6AMT</td>
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<td>Integration, polar coordinates, conic sections, vectors, indeterminate forms and proper integrals.</td>
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<tr>
<td>MAD 3107</td>
<td>Discrete Mathematics (3)</td>
<td>MAC 2281 or MAC 2311.</td>
<td>6AMT, 6AMT</td>
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<td>An introduction to some of the aspects of discrete mathematics that are fundamental to digital computing. Topics include sets, numbers, algorithms, Boolean algebra, computer arithmetic, elementary combinatorics and an introduction to graph theory.</td>
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<td>Course Number</td>
<td>Course Title</td>
<td>Prerequisites</td>
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<tr>
<td>MAD 4203</td>
<td>Introduction to Combinatorics (3)</td>
<td>MGF 3301</td>
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<td>Fundamental principles of counting. Topics include</td>
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<td>bijective proofs, arrangements and permutations,</td>
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<td>sets and multisets, the Principle of Inclusion-</td>
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<td>Exclusion, partitions, generating functions,</td>
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<td>recurrence relations, and the Polya theory of</td>
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<td>counting.</td>
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<td>MAD 4301</td>
<td>Introduction to Graph Theory (3)</td>
<td>MGF 3301</td>
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<td>Fundamental principles of Graph Theory, including</td>
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<td>isomorphism, trees and connectivity, Eulerian</td>
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<td>circuitry, Hamiltonicity, matching theory, planarity,</td>
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<td>graph colorings, Ramsey theory, and graph</td>
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<td>algorithms.</td>
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<td>MAD 4401</td>
<td>Numerical Analysis I (3)</td>
<td>MAP 2302 and MAS 3105. 6AMT, 6AMT</td>
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<td>Numerical solution of algebraic and transcendental</td>
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<td>equations, interpolation and polynomial</td>
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<td>approximation, numerical differentiation and</td>
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<td>integration, numerical solution of differential</td>
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<td>equations.</td>
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<tr>
<td>MAD 4402</td>
<td>Numerical Analysis II (3)</td>
<td>MAD 4401.</td>
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<td>Numerical linear algebra, approximation theory,</td>
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<td>eigenvalue approximation, systems of nonlinear</td>
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<td>equations, boundary value problems.</td>
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<tr>
<td>MAD 4471</td>
<td>Introduction to Cryptography and Coding Theory</td>
<td>MAS 3105 and MGF 3301</td>
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<td>(3)</td>
<td>Cryptology combines the studies of cryptography,</td>
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<td></td>
<td>the creating of masked messages, and</td>
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<td>cryptanalysis, the unraveling of masked</td>
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<td>messages. Coding theory is the study of coding</td>
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<td>schemes used to detect and correct errors that</td>
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<td>occur during the data transmission.</td>
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<tr>
<td>MAD 4504</td>
<td>Theory of Computation (3)</td>
<td>MGF 3301 or MAD 3107. 6AMT, 6AMT</td>
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<td>Mathematical aspects of alphabets and languages.</td>
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<td>Chomsky's hierarchy. Grammars. Regular languages,</td>
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<td>grammars and finite states machines. Context-free</td>
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<td>languages and grammars. Turing machines and</td>
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<td>languages. Decidability. Inductive definition of</td>
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<td>functions and basic computable functions. Introduction to</td>
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<td>computational complexity.</td>
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<tr>
<td>MAD 5101</td>
<td>LISP: Programming With Algebraic Applications</td>
<td>MHP 5306 or MAD 6510 or MAS 5311</td>
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<td>(3)</td>
<td>Programming in LISP, functional languages,</td>
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<td>foundations of Lambda Calculus and algebraic</td>
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<td>applications (theorem proving and game playing).</td>
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<tr>
<td>MAD 5305</td>
<td>Graph Theory (3)</td>
<td>MAS 3105</td>
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<td>Brief introduction to classical graph theory (4-color</td>
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<td>theorem, etc.), directed graphs, connected</td>
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<td>digraphs, condensations, incidence matrices,</td>
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<td>Polya's Theorem, networks.</td>
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</tbody>
</table>

**MAE 3224 Middle School Mathematics Methods Course 1 (3)**
This course provides prospective middle school teachers with initial skills to develop an inquiry-based learning environment that facilitates high academic achievement for all students, focusing on curriculum and learning at the task and lesson level.

**MAE 3225 Middle School Mathematics Methods Course 2 (3)**
This course provides prospective middle school teachers with advanced skills to develop an inquiry-based learning environment that facilitate high academic achievement for all students, focusing on assessment and learning at unit and semester levels.

**MAE 3941 Practicum I: Middle School Mathematics Education (1-3)**
The candidate will spend six hours a week in an assigned school, becoming acquainted with the middle grades classroom, and providing supervised one-on-one, small group and whole group instruction and will attend university seminars.

**MAE 3942 Practicum II: Middle School Mathematics Education (1-3)**
Candidates will spend nine hours a week in an assigned school, in a grade level or subject area other than the one completed in Practicum I, providing supervised one-on-one, small group, and whole group instruction, and will attend university seminars.

**MAE 4310 Teaching Elementary School (K-6) Mathematics I (3)**
PR: two college level mathematics courses Methods for teaching number ideas, computation skills, and mathematical reasoning in elementary (K â€“ 6) classrooms.

**MAE 4320 Teaching Mathematics in the Middle Grades (3)**
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)
PR: MAE 4310.
Methods for teaching informal geometry, measurement, probability, statistics, and algebraic thinking for elementary school (K â€“ 6) classrooms.

MAE 4330 Teaching Senior High School Mathematics (3)
PR: MAE 4320
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)
PR: MAE 4320
GCPC
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)
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)
PR: MAE 4652
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)
To extend competency in teaching field.

MAE 4936 Senior Seminar in Mathematics Education (3)
CR: MAE 4940
CPST
Synthesis of teacher candidate's courses in complete college program.

MAE 4940 Internship: Mathematics Education (1-12)
CR: MAE 4936
One full semester of internship in a public or private school. In special programs where the intern experience is distributed over two or more semesters, students will be registered for credit which accumulates from 9 to 12 semester hours.

MAE 4941 Internship I: Middle School Mathematics Education (1-12)
Candidates will spend each day of the semester in an assigned school implementing acquired knowledge from Practicum I and II, with increased responsibility for planning instruction and assessing student learning, and will attend internship seminars.

MAE 4942 Internship II: Middle School Mathematics Education (1-12)
Internship II is a continuation of Internship I. Candidates will spend each day of the semester co-teaching in the same school, with responsibility for planning instruction and assessing impact on student learning, and will attend internship seminars.

MAE 4945 Practicum in Mathematics Education (3)
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.

MAE 5177 Teaching College Mathematics (3)
PR: MGF 3301 with a minimum grade of C
In this course, students will acquire pedagogical skills necessary to become effective teachers of undergraduate math. It will also introduce students how to implement research-supported teaching practices and student-centered pedagogies in a classroom.

MAN 3025 Principles of Management (3)
SMLE
Examines intrapersonal, interpersonal, group/team, organizational, and environmental (both stakeholder and societal) factors influencing the management task.

MAN 3240 Organizational Behavior Analysis (3)
PR: MAN 3025 with a minimum grade of C
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)
PR: MAN 3025 with a minimum grade of C
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)
PR: MAN 3025 with a minimum grade of C
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)
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)
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)
PR: MAN 3240
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)
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 4329 People Analytics (3)
PR: MAN 3025 with a minimum grade of C
This course provides an overview of people analytics in today’s organizations. It looks at how data is being increasingly utilized to drive data-based and evidence-based based decision making into intra-organizational decision-making.

MAN 4402 Employment Laws (3)
PR: MAN 3025 with a minimum grade of C
This course covers Federal and state laws and regulations such as wage and hour laws; EEO; affirmative action programs; employee benefits; insurance; workers’ compensation, safety, health, employee's personal rights and collective bargaining.

MAN 4430 Seminar in Negotiations and Administration of Labor Agreements (3)
PR: MAN 3025 with a minimum grade of C
Case studies in contract negotiation, administration, grievance settlement, and arbitration. Assumes familiarity with industrial relations system.

MAN 4441 Negotiation and Conflict Resolution (3)
PR: MAN 3025 with a minimum grade of C and MAN 3240 with a minimum grade of C
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)
PR: QMB 2100 with a minimum grade of C or STA 2023 with a minimum grade of C or STA 2122 with a minimum grade of C
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 4505 Healthcare Operations Management (3)
PR: QMB 2100, with a grade of C or better
This course provides an overview of methodologies and approaches used in the healthcare operations, including performance improvement tools, project management and scheduling.

MAN 4600 International Management (3)
PR: MAN 3025 with a minimum grade of C
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)
MAN 4702 Disaster Recovery and Business Continuity Planning (3)
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)
PR: MAN 3240, MAN 3301, MAN 4282
This capstone 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)
PR: ACG 2021, ACG 2071, MAR 3023
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)
PR: MAN 4802
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)
Specialized independent study determined by the students needs and interests.

MAN 4930 Selected Topics in Management (1-3)
Topics to be selected by instructor and department chairperson for pertinent Management issues.

MAN 4931 Independent Research (1-4)
Individual study contract with instructor and department chairperson required. The research project will be mutually determined by the student and instructor.

MAN 4940 Management Internship (3)
This course consists of two components: an academic component focused on professional development skills and an on-site experiential learning experience comprised of at least 120 hours of on-site experience.

MAN 4970 Management Honors Thesis (3)
6ACT, 6ACT, WRIN
This course is the climax of an undergraduate experience in the College of Business. Thesis development supports critical investigation to develop explanations or solutions to academically interesting business problems or opportunities.

MAP 2302 Differential Equations (3)
PR: MAC 2283 or MAC 2313.
First order linear and nonlinear differential equations, higher order linear equations, applications.

MAP 4202 Optimization (3)
PR: MAP 2303 and MAS 3105.
Linear and nonlinear programming, the simplex method, duality and sensitivity, constrained and unconstrained optimization.

MAP 4341 Introduction to Partial Differential Equations (3)
PR: MAP 2302 and MAS 3105
Heat, Laplace, and Wave Equations; Initial and Boundary Value Problems; Separation of Variables; Fourier Series; Sturm-Liouville Problems

MAP 5316 Ordinary Differential Equations I (3)
PR: MAP 2302 and MAA 4211
Existence and uniqueness theory, properties of solutions, linear systems, stability theory. Sturm-Liouville theory.

MAP 5317 Ordinary Differential Equations II (3)
PR: MAP 5316 and MAA 5307
Topics selected from fixed point theory, comparison theory, oscillation theory, Poincare-Bendixson Theory, Lyapunov functions, eigenfunction expansions.

MAP 5345 Applied Partial Differential Equations (3)
PR: MAP 5407
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)
PR: MAP 2302

MAR 2931 Selected Topics in Marketing (1-3)
Topics to be selected by department chairman.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>MAR 3023</td>
<td>Basic Marketing (3)</td>
<td>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.</td>
</tr>
<tr>
<td>MAR 3202</td>
<td>Supply Chain Management (3)</td>
<td>PR: MAR 3023 GCPC, GCPC Supply Chain Management is the study of the end-to-end coordination of physical, information, and financial flows across companies from raw material inputs to delivery of products and services to customers and end consumers.</td>
</tr>
<tr>
<td>MAR 3400</td>
<td>Professional Selling (3)</td>
<td>PR: MAR 3023 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.</td>
</tr>
<tr>
<td>MAR 3613</td>
<td>Marketing Research (3)</td>
<td>PR: MAR 3023 with a minimum grade of C and (QMB 2100 with a minimum grade of C- or STA 2023 with a minimum grade of C-) 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.</td>
</tr>
<tr>
<td>MAR 3823</td>
<td>Marketing Management (3)</td>
<td>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.</td>
</tr>
<tr>
<td>MAR 4156</td>
<td>International Marketing (3)</td>
<td>PR: MAR 3023 A study of procedures and problems associated with establishing marketing operations in foreign countries. Includes the institutions, principles and methods involved in the solution of these business problems as well as the effects of national differences on business practices and buyer behavior.</td>
</tr>
<tr>
<td>MAR 4213</td>
<td>Logistics and Physical Distribution Management (3)</td>
<td>PR: MAR 3023 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.</td>
</tr>
<tr>
<td>MAR 4231</td>
<td>Retailing Management (3)</td>
<td>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.</td>
</tr>
<tr>
<td>MAR 4333</td>
<td>Promotion Management (3)</td>
<td>PR: MAR 3023 GCPC, GCPC 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.</td>
</tr>
<tr>
<td>MAR 4403</td>
<td>Sales Management (3)</td>
<td>PR: MAR 3023 A study of sales management and strategy as a subset of marketing management. Emphasis is placed on developing the problem-solving and decision-making skills required of the sales manager in the modern market-oriented company.</td>
</tr>
<tr>
<td>MAR 4453</td>
<td>Business to Business Marketing (3)</td>
<td>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.</td>
</tr>
<tr>
<td>MAR 4503</td>
<td>Buyer Behavior (3)</td>
<td>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.</td>
</tr>
</tbody>
</table>
MAR 4824 Marketing Management Problems (3)  
PR: MAR 3613 with a minimum grade of C-, MAR 3823 with a minimum grade of C-  
The integration of marketing knowledge applied to decision roles in managing the total marketing effort of firms, and coordination with other major functional areas on specific problems. Restricted to Marketing majors.

MAR 4903 Independent Research (1-3)  
Individual study contract with instructor and department chairperson required. The research project will be mutually determined by the student and instructor.

MAR 4905 Independent Study (1-3)  
Specialized independent study determined by the students’ needs and interests.

MAR 4933 Selected Topics in Marketing (1-3)  
Topics to be selected by instructor and department chairperson.

MAR 4940 Marketing Internship/Practicum (3)  
This course consists of two components: an academic component focused on professional development skills and an on-site experiential learning experience comprised of at least 120 hours of on-site experience.

MAR 4970 Marketing Honors Thesis (3)  
ACT, ACT, WRIN  
This course is the climax of an undergraduate experience in the College of Business. Thesis development supports critical investigation to develop explanations or solutions to academically interesting business problems or opportunities.

MAS 3105 Linear Algebra (3)  
CPR: MGF 3301 and either MAC 2283 or MAC 2313.  
6AMT, 6AMT  
Linear systems, matrix algebra, vector spaces, linear independence, inner product spaces, Gram-Schmidt algorithm, linear transformations and matrix representations, determinants, eigenvalues, diagonalization, quadratic forms.

MAS 4214 Elementary Number Theory (3)  
PR: MAC 2312.  
6AMT, 6AMT  
Divisibility, prime numbers, Fundamental Theorem of Arithmetic, Diophantine equations, the algebra of congruencies, number functions and other selected topics.

MAS 4903 Independent Research (1-3)  
Individual study contract with instructor and department chairperson required. The research project will be mutually determined by the student and instructor.

MAS 4302 Elementary Abstract Algebra II (3)  
PR: MAS 4301  
This course is a continuation of Elementary Abstract Algebra, where advanced topics in abstract algebra, including ring theory and field theory; introduction to Galois theory are taught.

MAS 5145 Advanced Linear Algebra (3)  
PR: MAS 3105 and MAS 4301  
CPR: MAS 5311.  
Finite-dimensional vector spaces over arbitrary fields, dual spaces, canonical forms for linear transformations, inner product spaces, orthogonal, unitary, and self-ad joint operators and quadratic forms.

MAS 5215 Number Theory (3)  
PR: MAS 3105 and MAS 4301  
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)
PR: MAS 3105 and MAS 4301
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.

MAT 1033 Intermediate Algebra (3)
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)
PR: MAT 0024 with a grade of "C" or better or
appropriate score on the Scholastic Aptitude Test,
Mathematics (SATM)
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 (1-4)
6AMT, 6AMT
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 (1-3)
6AMT, 6AMT
The course content will depend on the interest of
faculty members and student demand.

MAT 4937 Mathematics Majors Seminar (1)
PR: MAS 4301.
6AMT, 6AMT

MAT 4970 Mathematics Senior Thesis (3)
6AMT, 6AMT
Course restricted to mathematics majors.

MAT 5932 Selected Topics (1-4)
Each course covers a single topic outside the
usual curriculum.

MCB 2000 Microbiology Lab for Nursing and
other Healthcare Professionals (1)
CR: MCB 2000
Basics of microbiology for health professionals.
Focus on disease states and the role of bacteri,
viruses, fungi, rickettsiae and other pathogenic
organisms.

MCB 2000L General Microbiology (3)
PR: BSC 2010, BSC 2010L, BSC 2011, BSC
2011L, and CHM 2210 and MAC 1105 or higher-
level MAC course or STA 2023.
CR: PCB 3023 or PCB 3043 or PCB 3063 or
PCB 3712.
Structure and function of bacteria, archaea,
viruses, and eukaryotic microbes.

MCB 3020 General Microbiology Laboratory (1)
CR: MCB 3020
The laboratory involves preparation of culture
media, staining, pure culture methodology,
iso lab of microbes from nature, enumeration
techniques, resistance to infectious disease.

MCB 3020L General Microbiology Laboratory (1)
CR: MCB 3020
The laboratory involves preparation of culture
media, staining, pure culture methodology,
iso lab of microbes from nature, enumeration
techniques, resistance to infectious disease.

MCB 3410 Cell Metabolism (3)
PR: BSC 2010 with a minimum grade of C
or Biology with a minimum score of 4, BSC 2010L
or Biology with a minimum score of 4, CHM 2046 with a minimum
or Chemistry with a minimum score of
5
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.

MCB 4115 Determinative Bacteriology (3)
PR: MCB 3020, MCB 3020L
Survey of bacterial classification; detailed
examinations of bacteria important to man in
agriculture, in industry and as pathogens.

MCB 4115L Determinative Bacteriology
Laboratory (2)
CR: MCB 4115
Laboratory associated with Determinative
Bacteriology.

MCB 4202 Ecology of Infectious Diseases (3)
PR: MCB 3020 or PCB 3043
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.
MCB 4223 Food Microbiology (3)
PR: MCB 3020 and MCB 3020L 
Food Microbiology is a comprehensive course designed for students interested in microbiology. This course provides an introductory knowledge of food composition and food processing methods essential in the control of microbial growth and food contamination.

MCB 4313 Industrial Microbiology and Biotechnology (3)
PR: MCB 3020 
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.

MCB 4320 Molecular Microbiology (3)
PR: MCB 3020 with a minimum grade of C-, MCB 3020L with a minimum grade of C-, PC 3023 with a minimum grade of C-, PCB 3063 with a minimum grade of C-
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 (3)
PR: MCB 3020, CHM 2210, PHY 2053 
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)
CPR: MCB 4404 
Laboratory portion of Microbial Physiology and Genetics relating to biochemical characteristics and metabolic capabilities of bacteria. Laboratory only.

MCB 4503 Virology (3)
PR: MCB 3020, MCB 3020L 
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)
PR: CHM 2210 & MAC 1105 or higher-level MAC course or STA 2023 and CI. CP: PCB 3023 or PCB 3043 or PCB 3063 or PCB 3714 & 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 4933 Selected Topics in Microbiology (1-3)
This course covers various topics in microbiology. The content varies depending on student demand and instructor interest.

MCB 4934 Seminar in Microbiology (1)

MCB 5206 Public Health and Pathogenic Microbiology (3)
PR: MCB 3020 
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)
PR: 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)
PR: MCB 3020 
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 5815 Medical Mycology (3)
PR: MCB 3020 
A modern biological survey of the medically important fungi (yeasts and molds) important to microbiologists and environmental scientists.

MET 2010C Weather Studies (4)
Weather Studies covers the structure, composition, and physical basis of the atmosphere. Topics include atmospheric composition and structure, energy and moisture flows, observations, cloud and precipitation development, circulations and weather systems. This course includes several integrated lab investigations.
For Current Course Inventory, see [https://www.systemacademics.usf.edu/course-inventory/](https://www.systemacademics.usf.edu/course-inventory/)
### COURSE DESCRIPTIONS

**UNIVERSITY OF SOUTH FLORIDA 2019-20 UNDERGRADUATE CATALOG**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Prerequisites</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MHS 3204</td>
<td>Fundamentals of Applied Behavior Analysis (3)</td>
<td></td>
<td>The Fundamentals of Applied Behavior Analysis (ABA) course provides the student with information in the form of lectures, demonstrations, and practical exercises on the basic principles and procedures of the field of ABA.</td>
</tr>
<tr>
<td>MHS 3411</td>
<td>Multidisciplinary Behavioral Healthcare Services (3)</td>
<td></td>
<td>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.</td>
</tr>
<tr>
<td>MHS 4002</td>
<td>Behavioral Health Systems Delivery (3)</td>
<td>PR: MHS 3411</td>
<td>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.</td>
</tr>
<tr>
<td>MHS 4022</td>
<td>Adult Psychopathology in the Community (3)</td>
<td></td>
<td>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.</td>
</tr>
<tr>
<td>MHS 4023</td>
<td>Recovery Oriented Mental Health Services (3)</td>
<td></td>
<td>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.</td>
</tr>
<tr>
<td>MHS 4052</td>
<td>Human Relations Skills in Counseling (3)</td>
<td></td>
<td>Introduction to the theory of human relations dynamics and development of skills required for effective interpersonal relations. Lecture sessions and experiential training.</td>
</tr>
<tr>
<td>MHS 4074</td>
<td>Child Development and Trauma (3)</td>
<td></td>
<td>Students will acquire a thorough knowledge of normal development and the impact of trauma from the prenatal period through adolescence, in addition to screening, differential diagnosis and selection of appropriate evidence based trauma treatments.</td>
</tr>
<tr>
<td>MHS 4202</td>
<td>Behavioral Assessment and Intervention Planning (3)</td>
<td>PR: MHS 3204 or CLP 4414</td>
<td>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.</td>
</tr>
<tr>
<td>MHS 4203</td>
<td>Practical Skills-Children's Behavioral Healthcare (3)</td>
<td>PR: MHS 4490</td>
<td>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.</td>
</tr>
<tr>
<td>MHS 4206</td>
<td>Applied Behavioral Analysis in Autism and Development Disabilities (3)</td>
<td>PR: MSH 4202</td>
<td>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.</td>
</tr>
<tr>
<td>MHS 4408</td>
<td>Exemplary Practices in Behavioral Healthcare Treatment (3)</td>
<td>PR: MHS 3411</td>
<td>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.</td>
</tr>
<tr>
<td>MHS 4412</td>
<td>Research Methods and Ethical Issues in Behavior Analysis (3)</td>
<td>PR: MHS 4202</td>
<td>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.</td>
</tr>
<tr>
<td>MHS 4413</td>
<td>Applied Data Analysis for Behavioral Health Research (3)</td>
<td>PR: STA 2122 and (PSY 3213 or CCJ 3701 or GEY 4401 or SOW 3401)</td>
<td>Students will obtain the analytic skills necessary to conduct basic quantitative using SPSS and qualitative analyses using NVivo through a practical and applied introduction to the analysis and interpretation of both forms of data.</td>
</tr>
</tbody>
</table>
MHS 4425 Field Experience in Behavioral Healthcare (3)
PR: MHS 3411, MHS 4002, MHS 4408, MHS 4723 with a minimum grade of C-
CPR: MHS 4408 with a minimum grade of C-
CPST, CST, TGEH
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 semesters in advance of the semester.

MHS 4434 Behavioral Health and the Family (3)
GCPC, GCPC
This course covers ways that illness/injury affect the family of a person who is ill or injured; how family relations/behavioral patterns affect healing and return to good health; and how MH professionals serve families struggling with an ailing loved one.

MHS 4452 Co-Occurring Disorders (3)
This unrestricted course is designed to introduce the topic of co-occurring disorders, impart their knowledge and understanding, and teach skills needed to apply for and obtain employment in behavioral healthcare. It is not repeatable for credit.

MHS 4453 Applied Psychopharmacology in Drug Abuse and Dependency (3)
This survey course will cover a range of topics pertinent to the observation and recognition of drug use and abuse behavior, focusing on a knowledge base useful in applied (treatment) settings, and public and non-profit drug-policy institutions.

MHS 4454 Alcohol Drugs and Crime (3)
This course will provide an overview of research and clinical techniques related to the assessment, diagnosis and treatment of alcohol/drug use and the intersection with criminal behavior and the criminal justice system.

MHS 4455 Drug Abuse Prevention and Treatment (3)
This course will provide students with an orientation to drug abuse in the U.S., and introduce them to the most commonly used prevention and treatment techniques. The impact of important drug legislation will also be discussed.

MHS 4463 Suicide Issues in Behavioral Health (3)
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)
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)
6ACT, TGECC
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 4723 Professional Seminar in Behavioral Healthcare (3)
PR: MHS 3411, with a minimum grade of B-
This course provides (1) an overview of skills and processes needed to prepare for field work and (2) professional development opportunities related to behavioral healthcare.

MHS 4731 Writing for Research and Publication in Behavioral and Community Sciences (3)
6ACT, 6ACT, WRIN
This course is a writing intensive exit course that fulfills the Gordon rule requirement. Students will develop a research problem statement, complete a literature review, and learn to prepare manuscripts for publication.

MHS 4741 Applied Research Methods (3)
This course provides students with the opportunity to apply knowledge gained in research methods classes to contemporary problems in the behavioral sciences using quantitative and qualitative methods.

MHS 4905 Independent Study: Guidance and Counseling Education (1-4)
Specialized independent study determined by the student’s needs and interests.

MHS 4906 Directed Study (1-4)
Directed study. Student must have a contract with an instructor.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MHS 4912</td>
<td>Independent Research in Behavioral Health</td>
<td>1-4</td>
<td>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</td>
<td>1-3</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</td>
<td>3</td>
<td>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</td>
<td>3</td>
<td>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</td>
<td>3</td>
<td>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</td>
<td>2</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</td>
<td>2</td>
<td>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</td>
<td>3</td>
<td>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</td>
<td>3</td>
<td>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</td>
<td>2</td>
<td>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</td>
<td>1-4</td>
<td>Independent studies on a selected topic.</td>
</tr>
<tr>
<td>MLS 4038</td>
<td>Introduction to Medical Technology</td>
<td>1-2</td>
<td>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</td>
<td>2</td>
<td>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</td>
<td>2</td>
<td>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</td>
<td>6</td>
<td>A hospital clinical course on cellular components of the blood as related to laboratory diagnosis and disease, including blood coagulation and morphological and biochemical aspects of blood cells.</td>
</tr>
<tr>
<td>MLS 4863</td>
<td>Clinical Microbiology</td>
<td>6</td>
<td>A hospital clinical course emphasizing pathogens responsible for diseases in man, including morphology, physiology, and laboratory diagnosis of bacteria, fungi, parasites, and viruses.</td>
</tr>
<tr>
<td>MLS 4864</td>
<td>Clinical Chemistry</td>
<td>6</td>
<td>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>Course Code</td>
<td>Course Title</td>
<td>Prerequisites</td>
<td>Description</td>
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<tr>
<td>MLS 4865</td>
<td>Clinical Immunohematology (6)</td>
<td></td>
<td>A hospital clinical course on blood and tissue typing, including blood group systems, transfusion associated diseases, HLA testing, and preparation of blood and blood components for transfusion therapy.</td>
</tr>
<tr>
<td>MLS 4866</td>
<td>Clinical Laboratory Management and Education (1)</td>
<td></td>
<td>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.</td>
</tr>
<tr>
<td>MMC 2100</td>
<td>Writing for the Mass Media (3)</td>
<td>Pr: grade of &quot;C&quot; in ENC 1101, ENC 1102</td>
<td>An introduction to the basic skills of writing for the mass media with practice in library research, persuasive writing, and informational writing.</td>
</tr>
<tr>
<td>MMC 3140</td>
<td>Web Publishing (3)</td>
<td>Pr: JOU 2100, MMC 2100, MMC 3602, VIC 3001.</td>
<td>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.</td>
</tr>
<tr>
<td>MMC 3602</td>
<td>Mass Communications and Society (3)</td>
<td>CASB, HHCP, SPCO</td>
<td>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.</td>
</tr>
<tr>
<td>MMC 4200</td>
<td>History and Principles of Communications Law (3)</td>
<td>Pr: MMC 2100 and MMC 3602.</td>
<td>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.</td>
</tr>
<tr>
<td>MMC 4203</td>
<td>Communication Ethics (3)</td>
<td>Pr: MMC 2100 and MMC 3602.</td>
<td>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.</td>
</tr>
<tr>
<td>MMC 4208</td>
<td>Media Law and Ethics (3)</td>
<td>Pr: MMC 2100 and MMC 3602.</td>
<td>A study of the fundamental principles and philosophies of law and ethics and their application to various professions of mass communications.</td>
</tr>
<tr>
<td>MMC 4420</td>
<td>Research Methods in Mass Communications (3)</td>
<td>Pr: MMC 2100 and MMC 3602.</td>
<td>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.</td>
</tr>
<tr>
<td>MMC 4900</td>
<td>Directed Reading in Mass Communications (1-3)</td>
<td></td>
<td>Reading and directed study in special topics.</td>
</tr>
<tr>
<td>MMC 4910</td>
<td>Individual Research in Mass Communications (1-3)</td>
<td></td>
<td>The course provides means for a student to do independent study in an area not covered by a numbered course.</td>
</tr>
<tr>
<td>MMC 4936</td>
<td>Selected Topics in Mass Communications Studies (1-3)</td>
<td>Pr: MMC 2100, MMC 3602</td>
<td>Courses designed to meet current or specific topics of interest to instructors and students.</td>
</tr>
<tr>
<td>MMC 4945</td>
<td>Internship (1-3)</td>
<td></td>
<td>Students work for an employer within the field of mass communication to practice skills and apply knowledge.</td>
</tr>
<tr>
<td>MSL 1001C</td>
<td>Leadership and Personal Development (2)</td>
<td></td>
<td>Introduces to personal challenges &amp; competencies critical to effective leadership; teaches personal development life skills relative to leadership, officership, &amp; Army profession; focuses on gaining understanding of ROTC Program &amp; its purpose in Army.</td>
</tr>
<tr>
<td>MSL 1002C</td>
<td>Introduction to Tactical Leadership (2)</td>
<td></td>
<td>Presents leadership basics (eg: setting direction, problem-solving, listening, briefs, giving feedback &amp; use of effective writing skills); explores dimensions of leadership values, attributes, skills &amp; actions in context of practical hands-on exercises.</td>
</tr>
<tr>
<td>MSL 2101C</td>
<td>Innovative Team Leadership (2)</td>
<td></td>
<td>Explores creative &amp; innovative tactical leadership strategies &amp; styles. Develops knowledge of leadership values &amp; attributes by understanding Army rank, structure, &amp; duties. Broadens knowledge of land navigation &amp; squad tactics.</td>
</tr>
<tr>
<td>MSL 2102C</td>
<td>Foundations of Tactical Leadership (2)</td>
<td></td>
<td>Examines challenges of leading tactical teams in complex current operating environment; highlights dimensions of terrain analysis, patrolling &amp; operation orders; develops greater self-awareness, communication &amp; team building skills.</td>
</tr>
</tbody>
</table>
# COURSE DESCRIPTIONS

## MSL 2900 Army Physical Readiness (1)
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)
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)
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)
Challenges to study, practice, & evaluate adaptive leadership skills as demands of ROTC Leader Development Assessment Course are presented. Develops self-awareness & critical thinking skills with challenging scenarios. Provides feedback on leader skills.

## MSL 4301C Developing Adaptive Leaders (3)
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)
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)
Intensive individual study in a particular aspect of military science that is not covered in regular course offerings. Request for enrollment must be made prior to registration in the form of a written proposal.

## MTG 3207 Geometry Connections (3)
PR: MAC 2233 or MAC 2241 or MAC 2281 or MAC 2311
This course will provide prospective teachers with experiences in geometry that will help them develop the specialized content knowledge needed to support the teaching of mathematics in middle level education.

## MTG 3212 Geometry (3)
PR: MAC 2311
6AMT, 6AMT
Emphasis on axiomatics, advanced Euclidean geometry, elements of projective geometry, non-Euclidean geometry.

## MTG 4214 Modern Geometry (3)
CPR: MAS 4301
6AMT, 6AMT
Topics will be selected from modern plane geometry. Mobius geometry, elliptic and hyperbolic geometry.

## MTG 4254 Differential Geometry (3)
PR: MAC 2313 (or MAC 2283), MAP 2302 and MAS 3105
The intrinsic geometry of curves and surfaces will be explored using fundamental concepts and techniques from classical differential geometry.

## MTG 4254 Differential Geometry (3)
PR: MAC 2313 and MAS 3105.
6AMT, 6AMT

## MTG 5316 Topology I (3)
PR: MAA 4211.

## MUC 1211 Freshman Composition and Instrumentation 1 (2)
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)
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).
<table>
<thead>
<tr>
<th>Course Code</th>
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<th>Prerequisites</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUC 2221</td>
<td>Sophomore Composition and Instrumentation 1 (2)</td>
<td>PR: MUC 1212.</td>
<td>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.</td>
</tr>
<tr>
<td>MUC 2222</td>
<td>Sophomore Composition and Instrumentation 2 (2)</td>
<td>PR: MUC 1212.</td>
<td>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.</td>
</tr>
<tr>
<td>MUC 2301</td>
<td>Introduction To Electronic Music (3)</td>
<td>6ACT, CAFA, TGEC</td>
<td>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.</td>
</tr>
<tr>
<td>MUC 3231</td>
<td>Junior Composition and Instrumentation 1 (2)</td>
<td>PR: MUC 2222.</td>
<td>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.</td>
</tr>
<tr>
<td>MUC 3232</td>
<td>Junior Composition and Instrumentation 2 (2)</td>
<td>PR: MUC 3231.</td>
<td>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.</td>
</tr>
<tr>
<td>MUC 3401</td>
<td>Electronic Music-Analog Synthesis I (3)</td>
<td>PR: MUC 2301</td>
<td>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.</td>
</tr>
<tr>
<td>MUC 3402</td>
<td>Electronic Music-Analog Synthesis II (3)</td>
<td>PR: MUC 2301</td>
<td>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.</td>
</tr>
<tr>
<td>MUC 3441</td>
<td>Electronic Music-Digital Synthesis I (3)</td>
<td>PR: MUC 3401 or MUC 3402</td>
<td>Computer assisted composition for conventional instruments; composition for tape medium with computer controlled analog synthesizers; direct digital synthesis; digital systems design and construction.</td>
</tr>
<tr>
<td>MUC 3442</td>
<td>Electronic Music-Digital Synthesis II (3)</td>
<td>PR: MUC 3401 or MUC 3402</td>
<td>Computer assisted composition for conventional instruments; composition for tape medium with computer controlled analog synthesizers; direct digital synthesis; digital systems design and construction.</td>
</tr>
<tr>
<td>MUC 4241</td>
<td>Senior Composition and Instrumentation (2)</td>
<td>PR: MUC 3232.</td>
<td>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.</td>
</tr>
<tr>
<td>MUC 4403</td>
<td>Electronic Music-Real-Time Performance I (3)</td>
<td>PR: MUC 3402 and MUC 3442 or equivalent.</td>
<td>Composition for analog/digital equipment, performance applications; sound synthesis, interfacing electronics with conventional instruments.</td>
</tr>
<tr>
<td>MUC 4404</td>
<td>Electronic Music-Real-Time Performance II (3)</td>
<td>PR: MUC 3402 and MUC 3442 or equivalent.</td>
<td>Composition for analog/digital equipment, performance applications; sound synthesis, interfacing electronics with conventional instruments.</td>
</tr>
<tr>
<td>MUC 4620</td>
<td>Jazz Composition (3)</td>
<td>PR: MUT 3354</td>
<td>Private instruction in original jazz composition. Required of All Jazz Studies Comp. majors, minimum six of hours.</td>
</tr>
<tr>
<td>MUC 4950</td>
<td>Senior Recital/Project/Portfolio Presentation (2)</td>
<td>PR: MUC 4241.</td>
<td>This is course is a &quot;capstone&quot;-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.</td>
</tr>
<tr>
<td>MUC 5625</td>
<td>Jazz Composition (2)</td>
<td>Private instruction in original composition.</td>
<td></td>
</tr>
</tbody>
</table>
MUE 1111 Keyboard Skills for Music Educators I (2)
This course is designed to help students develop musicianship skills through the use of a music keyboard and to develop skills for using the keyboard in teaching and learning situations.

MUE 1121 Keyboard Skills for Music Educators II (2)
PR: MUE 1111
This course is designed to help students continue development of musicianship skills through the use of a music keyboard and to continue development of skills for using the keyboard in teaching and learning situations.

MUE 2090 Foundations of Music Education (3)
GCPC, GCPC
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)
PR: MUE 2090.
CR: MUE 3424
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 3415 Creative Performance Chamber Ensemble II (1)
PR: MUE 3414
CR: 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.

MUE 3421 Choral Techniques (1)
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)
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)
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)
PR: MUE 2090
CR: MUE 3414
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)
PR: MUE 3424.
CR: MUE 3415
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)
Introduction to percussion pedagogy for the music educator.

MUE 3691 Introduction to Technology for Music Educators (3)
This course is designed as an introduction to computer technology and its role in teaching and learning processes. Topics include educational software and applications, ethical and social issues and models for integrating technology into instruction.

MUE 3930 Music Education Forum (1)
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)
PR: MUE 2090
GCPC, GCPC
This course will consist of theoretical and practical information in teaching General Music PreK-12. It will include approaches and methodologies from the USA and internationally.

MUE 4331 Choral Methods (3)
Development and implementation of methods techniques for teaching secondary school choral music.
MUE 4332 Instrumental Methods (3)
PR: MUE 2450, MUE 2460, MVP 1211.
Development and implementation of methods
techniques for teaching secondary school
instrumental music.

MUE 4480 Marching Band Methods (2)
This course is designed for students who are
planning to be high school or college band
directors and will be in charge of running a
marching band. Students will arranging music,
write drill, and cover other important marching
band topics.

MUE 4936 Senior Seminar in Music Education (3)
CR: MUE 4940
6ACT, 6ACT, WRIN
Synthesis of teacher candidate's courses in
complete college program. Required concurrently
with internship.

MUE 4940 Internship: Music Education (6-10)
CR: MUE 4936
CPST
One full semester of internship in public or private
elementary and secondary schools. Restricted to
majors. May not be repeated for credit.

MUE 4941 Global Awareness Music Education
Internship (3-6)
PR: MUE 3424 and MUE 3425
The Global Awareness Music Education Internship
will be a four-week intensive summer experience
where music education students are assigned to
work with one Musical Futures teacher in a k-12
school setting.

MUG 3104 Basic Conducting (2)
The study and practical application of basic
conducting techniques. Development of skills
related to the conducting of musical scores.

MUG 3108 Advanced Conducting (2)
PR: MUG 3104.
Provides USF music education majors with a
competency-based lab experience in conducting
while placing an emphasis on developing
advanced skills necessary to lead an ensemble in
rehearsal and performance. Restricted to Music
Education Majors.

MUG 4302 Instrumental Conducting (2)
PR: MUG 3404
A study of those techniques of conducting unique
to instrumental music ensembles: baton
technique, score reading, terminology, rehearsal
management.

MUH 2020 The History of Blues and Rock (3)
CAFA, HHCP
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 (3)
CAFA
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 (3)
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 (3)
6ACT, CAFA, TGED
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)
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 (3)
PR: MUL 2111
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 (3)
PR: MUL 2111
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 (3)
PR: MUH 2051 or MUL 2111
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 (3)
6ACT, 6ACT, WRIN
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)
PR: MUT 1112
An in-depth study of the historical development of Jazz, including the representative musical literature and sociological implications.

MUL 2111 Introduction To Music Literature (3)
PR: MUT 1112
6ACT, 6ACT
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 (3)
6ACT, TGEI
This class offers a unique opportunity to address and critically analyze current and historical trends within the popular music recording and publishing industry. The course will also emphasize the importance of consumer awareness and responsibility.

MUL 3011 Western Art Music in Your Life (3)
CAFA
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)
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)
PR: Auditions for Pep Band are required for students who did not march in the Fall. Auditions for Winter Guard are required for all members. To provide performance experiences with the USF Pep Band and Winter Guard. It is open to any major area. Auditions are required for the Winter Guard and members of the Pep Band who did not march in the Fall.

MUN 1110 University Marching Band (1-3)
This course provides performance experiences with the Marching Band. The course is open to any major area.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUN 3333</td>
<td>Singing Stampede (1)</td>
<td>Open to all university students with the necessary proficiency in their performing media (singing); study and performance of male-chorus music and male-chorus music in combination with string, woodwind, brass, or percussion instruments.</td>
</tr>
<tr>
<td>MUN 3343</td>
<td>Chamber Singers (1)</td>
<td>Open to all university students with the necessary proficiency in their performing media; study and performance of music for small combinations of voices, string, woodwind, brass, or percussion instruments, and piano.</td>
</tr>
<tr>
<td>MUN 3383</td>
<td>University-Community Chorus (1)</td>
<td>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.</td>
</tr>
<tr>
<td>MUN 3411</td>
<td>String Quartet (1)</td>
<td>Open to all university students with the necessary proficiency in their performing media; study and performance of music for small combinations of voices, string, woodwind, brass, or percussion instruments, and piano.</td>
</tr>
<tr>
<td>MUN 3424</td>
<td>Woodwind Quintet (1)</td>
<td>Open to all university students with the necessary proficiency in their performing media; study and performance of music for small combinations of voices, string, woodwind, brass, or percussion instruments, and piano.</td>
</tr>
<tr>
<td>MUN 3427</td>
<td>Flute Choir (1)</td>
<td>Flute Choir will rehearse and perform new and standard repertoire for flute ensemble. Students will learn to perform on all members of the flute family including piccolo, C flute, alto and bass flute.</td>
</tr>
<tr>
<td>MUN 3431</td>
<td>Brass Quintet (1)</td>
<td>Open to all university students with the necessary proficiency in their performing media; study and performance of music for small combinations of voices, string, woodwind, brass, or percussion instruments, and piano.</td>
</tr>
<tr>
<td>MUN 3433</td>
<td>Brass Choir (1)</td>
<td>Open to all university students with the necessary proficiency in their performing media; study and performance of music for small combinations of voices, string, woodwind, brass, or percussion instruments, and piano.</td>
</tr>
<tr>
<td>MUN 3443</td>
<td>Percussion Ensemble (1)</td>
<td>Open to all university students with the necessary proficiency in their performing media; study and performance of music for small combinations of voices, string, woodwind, brass, or percussion instruments, and piano.</td>
</tr>
<tr>
<td>MUN 3444</td>
<td>Marimba Ensemble (1)</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 3453</td>
<td>Piano Ensemble (1)</td>
<td>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.</td>
</tr>
<tr>
<td>MUN 3474</td>
<td>Collegium Musicum (1)</td>
<td>Open to all university students with the necessary proficiency in their performing media; study and performance of music for small combinations of voices, string, woodwind, brass, or percussion instruments, and piano.</td>
</tr>
<tr>
<td>MUN 3713</td>
<td>Jazz Ensemble (1)</td>
<td>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.</td>
</tr>
<tr>
<td>MUN 3714</td>
<td>Jazz Chamber Ensemble (1)</td>
<td>Open to all university students with the necessary proficiency in their performing media; study and performance of music for small combinations of voices, string, woodwind, brass, or percussion instruments, and piano.</td>
</tr>
<tr>
<td>MUO 3503</td>
<td>Opera Workshop (1)</td>
<td>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.</td>
</tr>
<tr>
<td>MUS 2010</td>
<td>Recital Attendance (0)</td>
<td>BA students must pass the course 4 times, BS students 5 times, and BM students 6 times. A passing grade (S) requires a minimum of 7 attendances per semester. Only performances sponsored by the School of Music will count toward Recital Attendance.</td>
</tr>
<tr>
<td>MUS 2201</td>
<td>Language Diction For Singers (1)</td>
<td>Specialized study in Language Diction for Singers. Specific language varies, to be arranged at each course offering.</td>
</tr>
<tr>
<td>MUS 4801</td>
<td>Mind-Body Integration for Musicians (2)</td>
<td>This course teaches music majors about sound approaches to practice, perform, and maintain good posture, breathing, strong and flexible body, and develop quick mind and deep musicality. The course incorporates reading, discussion, and hands-on practice.</td>
</tr>
</tbody>
</table>
### Course Descriptions

#### MUS 4905 Directed Study (1-4)
Independent studies in the various areas of music; course of study and credits must be assigned prior to registration.

#### MUS 4930 Selected Topics In Music (1-3)
The content of the course will be governed by student demand and instructor interest.

#### MUS 4931 Selected Studio Topics In Music (1-3)
The content of the course will be governed by student demand and instructor interest.

#### MUS 4935 Music Senior Seminar (1)
To aid majors to understand, appraise and perfect their own art through critical and aesthetic judgments of their colleagues.

#### MUS 5905 Directed Study (1-4)
Independent studies in the various areas of music; course of study and credits must be assigned prior to registration.

#### MUT 1001 Rudiments Of Music (2)
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)
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)
PR: MUT 1111
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)
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)
PR: MUT 1241
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)
PR: MUT 1112
Required of music majors, continuation of MUT 1111 and 1112.

#### MUT 2117 Music Theory IV (3)
PR: MUT 2116
Required of music majors, continuation of MUT 1111, 1112, and 2116.

#### MUT 2246 Aural Theory III (1)
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)
PR: MUT 2246
CR: MUT 2116, MUT 2117
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)
PR: MUT 1112
A study of jazz improvisational techniques and related jazz theory.

#### MUT 2642 Jazz Theory and Improvisation II (2)
PR: MUT 2641
A study of jazz improvisational techniques and related jazz theory.

#### MUT 3353 Jazz Composition and Arranging I (3)
PR: MUT 1112
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)
PR: MUT 3353
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)
PR: MUT 2642
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)
PR: MUT 3663
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)
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.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Prerequisites</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>MUT 4311</td>
<td>Orchestration II (2)</td>
<td>PR: MUT 4310</td>
<td>Intensive study and practice in scoring music for various combinations of instruments, including</td>
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<td>symphony orchestra, band, and smaller ensembles of string, woodwind, brass, and percussion</td>
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<td></td>
<td></td>
<td></td>
<td>instruments.</td>
</tr>
<tr>
<td>MUT 4421</td>
<td>Eighteenth Century</td>
<td>PR: MUT 2117</td>
<td>An intensive study of the contrapuntal practice of the 18th century; development of skills in</td>
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<td></td>
<td>Practice (3)</td>
<td></td>
<td>perceiving and writing music in the style of the period through the use of aural and visual</td>
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<td></td>
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<td>analysis.</td>
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<tr>
<td>MUT 4571</td>
<td>Twentieth Century</td>
<td>PR: MUT 2117</td>
<td>A study of 20th century theoretical concepts; development of skills in perceiving and writing</td>
</tr>
<tr>
<td></td>
<td>Practice (3)</td>
<td></td>
<td>music in contemporary styles through the use of aural and visual analysis.</td>
</tr>
<tr>
<td>MUT 4611</td>
<td>Form and Analysis (3)</td>
<td>PR: MUT 2117,</td>
<td>This course teaches students to think critically, speak, and write fluently about music, music</td>
</tr>
<tr>
<td></td>
<td></td>
<td>MUT 1111, MUT</td>
<td>analysis, and how these processes relate to the work done in rehearsals or studios via various</td>
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<td></td>
<td></td>
<td>1112, MUT 1241,</td>
<td>inquiry-based learning strategies.</td>
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<td>MUT 1242, MUT</td>
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<td>2116, MUT 2117,</td>
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<td>MUT 2246, MUT</td>
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<td>2247</td>
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<tr>
<td>MVB 1211</td>
<td>Applied Trumpet (1)</td>
<td></td>
<td>One half-hour private lesson or one hour class per week for music students wishing to gain</td>
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<td></td>
<td></td>
<td></td>
<td>proficiency in an area other than their applied performance major and for a limited number of</td>
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<td></td>
<td></td>
<td></td>
<td>nonmusic majors who have had prior musical training.</td>
</tr>
<tr>
<td>MVB 1212</td>
<td>Applied French Horn</td>
<td></td>
<td>One half-hour private lesson or one hour class per week for music students wishing to gain</td>
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<td>(1)</td>
<td></td>
<td>proficiency in an area other than their applied performance major and for a limited number of</td>
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<td></td>
<td></td>
<td></td>
<td>nonmusic majors who have had prior musical training.</td>
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<tr>
<td>MVB 1213</td>
<td>Applied Trombone (1)</td>
<td></td>
<td>One half-hour private lesson or one hour class per week for music students wishing to gain</td>
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<td>proficiency in an area other than their applied performance major and for a limited number of</td>
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<td></td>
<td></td>
<td>nonmusic majors who have had prior musical training.</td>
</tr>
<tr>
<td>MVB 1214</td>
<td>Applied Euphonium</td>
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<td>One half-hour private lesson or one hour class per week for music students wishing to gain</td>
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<td>(1)</td>
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<td>proficiency in an area other than their applied performance major and for a limited number of</td>
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<td></td>
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<td>nonmusic majors who have had prior musical training.</td>
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<tr>
<td>MVB 1215</td>
<td>Applied Tuba (1)</td>
<td></td>
<td>One half-hour private lesson or one hour class per week for music students wishing to gain</td>
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<td></td>
<td></td>
<td>proficiency in an area other than their applied performance major and for a limited number of</td>
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<td></td>
<td></td>
<td></td>
<td>nonmusic majors who have had prior musical training.</td>
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<tr>
<td>MVB 1311</td>
<td>Trumpet Principal (2)</td>
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<td>French Horn Principal</td>
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<tr>
<td>MVB 1313</td>
<td>Trombone Principal (2)</td>
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<td>MVB 2323</td>
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<td>French Horn Principal</td>
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<td>MVB 4445</td>
<td>Tuba Major</td>
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</tbody>
</table>

For Current Course Inventory, see [https://www.systemacademics.usf.edu/course-inventory/](https://www.systemacademics.usf.edu/course-inventory/)
MVJ 1414 Jazz Bass Major (3)
Private and class instruction.

MVJ 1419 Jazz Percussion Major (3)
Applied instruction for Jazz Percussion Majors, Freshman level Restricted to Majors Repeatable (9 credits total) Applied Jazz Lessons are specialized performance studies designed to improve student instrumental, stylistic and improvisational skills.

MVJ 2110 Jazz Keyboard Skills (2)
PR: MUT 2641.
For jazz studies majors (non pianists). Students will learn jazz chord voicings, comping rhythms, and develop appropriate piano technique to be able perform simple melodies and bass lines.

MVJ 2320 Applied Jazz Piano Principal (2)
Private and class instruction.

MVJ 2323 Jazz Guitar Principal (2)
Private and class instruction.

MVJ 2324 Jazz Bass Principal (2)
Private and class instruction.

MVJ 2329 Applied Jazz Percussion Principal (2)
Private and class instruction.

MVJ 2420 Applied Jazz Piano Major (3)
Private and class instruction.

MVJ 2423 Jazz Guitar Major (3)
Private and class instruction.

MVJ 2424 Jazz Bass Major (3)
Private and class instruction.

MVJ 2425 Jazz Percussion Major (3)
Applied instruction for Jazz Percussion Majors, Freshman level Restricted to Majors Repeatable (9 credits total) Applied Jazz Lessons are specialized performance studies designed to improve student instrumental, stylistic and improvisational skills.

MVJ 3330 Applied Jazz Piano Principal (2)
Private and class instruction.

MVJ 3333 Jazz Guitar Principal (2)
Private and class instruction.

MVJ 3334 Jazz Bass Principal (2)
Private and class instruction.

MVJ 3339 Applied Jazz Percussion Principal (2)
Private and class instruction.

MVJ 3430 Applied Jazz Piano Major (3)
Private and class instruction.

MVJ 3433 Jazz Guitar Major (3)
Private and class instruction.

MVJ 3434 Jazz Bass Major (3)
Private and class instruction.

MVJ 3439 Applied Jazz Percussion (3)
Private and class instruction.

MVJ 4340 Jazz Piano Principal (2)
Private and class instruction.

MVJ 4343 Jazz Guitar Principal (2)
Private and class instruction.

MVJ 4344 Jazz Bass Principal (2)
Private and class instruction.

MVJ 4349 Jazz Percussion Principal (2)
Private and class instruction.

MVJ 4440 Jazz Piano Major (3)
Private and class instruction.

MVJ 4443 Jazz Guitar Major (3)
Private and class instruction.

MVJ 4444 Jazz Bass Major (3)
Private and class instruction.

MVJ 4449 Jazz Percussion Major (3)
Private and class instruction.

MVJ 4950 Applied Jazz Performance (3)
PR: MUT 2642
Necessary competency at junior level determined by faculty jury examination. Private and class instruction.

MVJ 5250 Applied Jazz Piano Secondary (2)
Private and class instruction.

MVJ 5253 Applied Jazz Guitar Secondary (2)
Private and class instruction.

MVJ 5254 Applied Jazz Bass Secondary (2)
Private and class instruction.

MVJ 5259 Applied Jazz Percussion Secondary (2)
Private and class instruction.

MVJ 5951 Applied Jazz Performance (2)
Private and class instruction.

MVK 1111 Keyboard Skills I (2)
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 1125 Keyboard Skills II (2)
PR: MVK 1111
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.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MVK 1211</td>
<td>Applied Piano (1)</td>
<td>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>MVK 1311</td>
<td>Piano Principal (2)</td>
<td>Private and class instruction.</td>
</tr>
<tr>
<td>MVK 1411</td>
<td>Piano Major (3)</td>
<td>Private and class instruction.</td>
</tr>
<tr>
<td>MVK 1811</td>
<td>Beginning Piano I (2)</td>
<td>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.</td>
</tr>
<tr>
<td>MVK 2121</td>
<td>Keyboard Skills III (2)</td>
<td>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.</td>
</tr>
<tr>
<td>MVK 2122</td>
<td>Keyboard Skills IV (2)</td>
<td>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.</td>
</tr>
<tr>
<td>MVK 2321</td>
<td>Piano Principal (2)</td>
<td>Private and class instruction.</td>
</tr>
<tr>
<td>MVK 2421</td>
<td>Piano Major (3)</td>
<td>Private and class instruction.</td>
</tr>
<tr>
<td>MVK 2813</td>
<td>Intermediate Piano (2)</td>
<td>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.</td>
</tr>
<tr>
<td>MVK 3331</td>
<td>Piano Principal (2)</td>
<td>Private and class instruction.</td>
</tr>
<tr>
<td>MVK 3431</td>
<td>Piano Major (3)</td>
<td>Private and class instruction.</td>
</tr>
<tr>
<td>MVK 4341</td>
<td>Piano Principal (2)</td>
<td>Private and class instruction.</td>
</tr>
<tr>
<td>MVK 4441</td>
<td>Piano Major (3)</td>
<td>Private and class instruction.</td>
</tr>
<tr>
<td>MVK 4640</td>
<td>Piano Pedagogy I (3)</td>
<td>May be elected by undergraduate music majors; emphasis on the business management of the music studio, and the musical responsibilities of the studio teacher, the techniques of private instruction.</td>
</tr>
<tr>
<td>MVK 4641</td>
<td>Piano Pedagogy II (3)</td>
<td>PR: MVK 4640 May be elected by undergraduate music majors; emphasis on the business management of the music studio, and the musical responsibilities of the studio teacher, the techniques of private instruction.</td>
</tr>
<tr>
<td>MVP 1211</td>
<td>Applied Percussion (1)</td>
<td>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>MVP 1311</td>
<td>Percussion Principal (2)</td>
<td>Private and class instruction.</td>
</tr>
<tr>
<td>MVP 1411</td>
<td>Percussion Major (3)</td>
<td>Private and class instruction.</td>
</tr>
<tr>
<td>MVP 2321</td>
<td>Percussion Principal (2)</td>
<td>Private and class instruction.</td>
</tr>
<tr>
<td>MVP 2421</td>
<td>Percussion Major (3)</td>
<td>Private and class instruction.</td>
</tr>
<tr>
<td>MVP 3331</td>
<td>Percussion Principal (2)</td>
<td>Private and class instruction.</td>
</tr>
<tr>
<td>MVP 3431</td>
<td>Percussion Major (3)</td>
<td>Private and class instruction.</td>
</tr>
<tr>
<td>MVP 4341</td>
<td>Percussion Principal (2)</td>
<td>Private and class instruction.</td>
</tr>
<tr>
<td>MVP 4441</td>
<td>Percussion Major (3)</td>
<td>Private and class instruction.</td>
</tr>
<tr>
<td>MVP 5251</td>
<td>Applied Piano (2-4)</td>
<td>Required of all applied music majors. Private and class instruction.</td>
</tr>
<tr>
<td>MVS 1211</td>
<td>Applied Violin (1)</td>
<td>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>
</tbody>
</table>
### COURSE DESCRIPTIONS
(AS OF MARCH 1, 2019)

**UNIVERSITY OF SOUTH FLORIDA 2019-20 UNDERGRADUATE CATALOG**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MVS 1212</td>
<td>Applied Viola</td>
<td>1</td>
<td>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>MVS 1213</td>
<td>Applied Violoncello</td>
<td>1</td>
<td>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>MVS 1214</td>
<td>Applied Double Bass</td>
<td>1</td>
<td>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>MVS 1311</td>
<td>Violin Principal</td>
<td>2</td>
<td>Private and class instruction.</td>
</tr>
<tr>
<td>MVS 1312</td>
<td>Viola Principal</td>
<td>2</td>
<td>Private and class instruction.</td>
</tr>
<tr>
<td>MVS 1313</td>
<td>Violoncello Principal</td>
<td>2</td>
<td>Private and class instruction.</td>
</tr>
<tr>
<td>MVS 1314</td>
<td>Double Bass Principal</td>
<td>2</td>
<td>Private and class instruction.</td>
</tr>
<tr>
<td>MVS 1411</td>
<td>Violin Major</td>
<td>3</td>
<td>Private and class instruction.</td>
</tr>
<tr>
<td>MVS 1412</td>
<td>Viola Major</td>
<td>3</td>
<td>Private and class instruction.</td>
</tr>
<tr>
<td>MVS 1413</td>
<td>Cello Major</td>
<td>3</td>
<td>Private and class instruction.</td>
</tr>
<tr>
<td>MVS 1414</td>
<td>Double Bass Major</td>
<td>3</td>
<td>Private and class instruction.</td>
</tr>
<tr>
<td>MVS 2321</td>
<td>Violin Principal</td>
<td>2</td>
<td>Private and class instruction.</td>
</tr>
<tr>
<td>MVS 2322</td>
<td>Viola Principal</td>
<td>2</td>
<td>Private and class instruction.</td>
</tr>
<tr>
<td>MVS 2323</td>
<td>Violoncello Principal</td>
<td>2</td>
<td>Private and class instruction.</td>
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<tr>
<td>MVS 2324</td>
<td>Double Bass Principal</td>
<td>2</td>
<td>Private and class instruction.</td>
</tr>
<tr>
<td>MVS 2421</td>
<td>Violin Major</td>
<td>3</td>
<td>Private and class instruction.</td>
</tr>
<tr>
<td>MVS 2422</td>
<td>Viola Major</td>
<td>3</td>
<td>Private and class instruction.</td>
</tr>
<tr>
<td>MVS 2423</td>
<td>Cello Major</td>
<td>3</td>
<td>Private and class instruction.</td>
</tr>
<tr>
<td>MVS 2424</td>
<td>Double Bass Major</td>
<td>3</td>
<td>Private and class instruction.</td>
</tr>
<tr>
<td>MVS 3331</td>
<td>Violin Principal</td>
<td>2</td>
<td>Private and class instruction.</td>
</tr>
<tr>
<td>MVS 3332</td>
<td>Viola Principal</td>
<td>2</td>
<td>Private and class instruction.</td>
</tr>
<tr>
<td>MVS 3333</td>
<td>Violoncello Principal</td>
<td>2</td>
<td>Private and class instruction.</td>
</tr>
<tr>
<td>MVS 3334</td>
<td>Double Bass Principal</td>
<td>2</td>
<td>Private and class instruction.</td>
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<tr>
<td>MVS 3431</td>
<td>Violin Major</td>
<td>3</td>
<td>Private and class instruction.</td>
</tr>
<tr>
<td>MVS 3432</td>
<td>Viola Major</td>
<td>3</td>
<td>Private and class instruction.</td>
</tr>
<tr>
<td>MVS 3433</td>
<td>Cello Major</td>
<td>3</td>
<td>Private and class instruction.</td>
</tr>
<tr>
<td>MVS 3434</td>
<td>Double Bass Major</td>
<td>3</td>
<td>Private and class instruction.</td>
</tr>
<tr>
<td>MVS 5251</td>
<td>Applied Violin</td>
<td>2-4</td>
<td>Private and class instruction.</td>
</tr>
<tr>
<td>MVS 5252</td>
<td>Applied Viola</td>
<td>2-4</td>
<td>Private and class instruction.</td>
</tr>
<tr>
<td>MVS 5253</td>
<td>Applied Cello</td>
<td>2-4</td>
<td>Private and class instruction.</td>
</tr>
</tbody>
</table>
| MVS 5254    | Applied Double Bass | 2-4 | Private and class instruction. 

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COURSE DESCRIPTIONS
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MVV 1211 Applied Voice (1)
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)
Private and class instruction.

MVV 1411 Voice Major (3)
Private and class instruction.

MVV 2321 Voice Principal (2)
Private and class instruction.

MVV 2421 Voice Major (3)
Private and class instruction.

MVV 3331 Voice Principal (2)
Private and class instruction.

MVV 3431 Voice Major (3)
Private and class instruction.

MVV 3630 Vocal Pedagogy - Undergraduate (2)
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)
Private and class instruction.

MVV 4441 Voice Major (3)
Private and class instruction.

MVV 5251 Applied Voice (2-4)
Private and class instruction.

MVW 1211 Applied Flute (1)
One half-hour private lesson or one hour class per week for music students wishing to gain proficiency in an area other than their applied performance major and for a limited number of nonmusic majors who have had prior musical training.

MVW 1212 Applied Oboe (1)
One half-hour private lesson or one hour class per week for music students wishing to gain proficiency in an area other than their applied performance major and for a limited number of nonmusic majors who have had prior musical training.

MVW 1213 Applied Clarinet (1)
One half-hour private lesson or one hour class per week for music students wishing to gain proficiency in an area other than their applied performance major and for a limited number of nonmusic majors who have had prior musical training.

MVW 1214 Applied Bassoon (1)
One half-hour private lesson or one hour class per week for music students wishing to gain proficiency in an area other than their applied performance major and for a limited number of nonmusic majors who have had prior musical training.

MVW 1215 Applied Saxophone (1)
One half-hour private lesson or one hour class per week for music students wishing to gain proficiency in an area other than their applied performance major and for a limited number of nonmusic majors who have had prior musical training.

MVW 1311 Flute Principal (2)
Private and class instruction.

MVW 1312 Oboe Principal (2)
Private and class instruction.

MVW 1313 Clarinet Principal (2)
Private and class instruction.

MVW 1314 Bassoon Principal (2)
Private and class instruction.

MVW 1315 Saxophone Principal (2)
Private and class instruction.

MVW 1411 Flute Major (3)
Private and class instruction.

MVW 1412 Oboe Major (3)
Private and class instruction.

MVW 1413 Clarinet Major (3)
Private and class instruction.

MVW 1414 Bassoon Major (3)
Private and class instruction.

MVW 1415 Saxophone Major (3)
Private and class instruction.

MVW 2321 Flute Principal (2)
Private and class instruction.

MVW 2322 Oboe Principal (2)
Private and class instruction.

MVW 2323 Clarinet Principal (2)
Private and class instruction.

MVW 2324 Bassoon Principal (2)
Private and class instruction.
### MVW 2325 Saxophone Principal (2)
Private and class instruction.

### MVW 2421 Flute Major (3)
Private and class instruction.

### MVW 2422 Oboe Major (3)
Private and class instruction.

### MVW 2423 Clarinet Major (3)
Private and class instruction.

### MVW 2424 Bassoon Major (3)
Private and class instruction.

### MVW 2425 Saxophone Major (3)
Private and class instruction.

### MVW 3331 Flute Principal (2)
Private and class instruction.

### MVW 3332 Oboe Principal (2)
Private and class instruction.

### MVW 3333 Clarinet Principal (2)
Private and class instruction.

### MVW 3334 Bassoon Principal (2)
Private and class instruction.

### MVW 3335 Saxophone Principal (2)
Private and class instruction.

### MVW 3431 Flute Major (3)
Private and class instruction.

### MVW 3432 Oboe Major (3)
Private and class instruction.

### MVW 3433 Clarinet Major (3)
Private and class instruction.

### MVW 3434 Bassoon Major (3)
Private and class instruction.

### MVW 3435 Saxophone Major (3)
Private and class instruction.

### MVW 4341 Flute Principal (2)
Private and class instruction.

### MVW 4342 Oboe Principal (2)
Private and class instruction.

### MVW 4343 Clarinet Principal (2)
Private and class instruction.

### MVW 4344 Bassoon Principal (2)
Private and class instruction.

### MVW 4345 Saxophone Major (3)
Private and class instruction.

### MVW 5251 Applied Flute (2-4)
Private and class instruction.

### MVW 5252 Applied Oboe (2-4)
Private and class instruction.

### MVW 5253 Applied Clarinet (2-4)
Private and class instruction.

### MVW 5254 Applied Bassoon (2-4)
Private and class instruction.

### MVW 5255 Applied Saxophone (2-4)
Private and class instruction.

### NGR 5871 Informatics in Nursing and Healthcare (3)
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)
A weekly two-hour laboratory covering professional and military subject matter. Attendance is mandatory for all midshipmen.

### NSC 1110 Introduction to Naval Science (3)
Emphasis on the mission, organization, regulations and components of the U.S. Navy and Marine Corps.

### NSC 1140 Sea Power and Maritime Affairs (3)
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)
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisites</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>NSC 2212C</td>
<td>Navigation/Naval Operations I: Navigation</td>
<td>3</td>
<td></td>
<td>Piloting and celestial navigation theory, principles, and procedures. Tides, currents, weather, use of navigation instruments and equipment, and practicum. Laboratory required.</td>
</tr>
<tr>
<td>NSC 2220</td>
<td>Evolution of Warfare</td>
<td>3</td>
<td></td>
<td>A survey of military history emphasizing principles of warfare, strategy and tactics, and significant military leaders and organizations.</td>
</tr>
<tr>
<td>NSC 2231</td>
<td>Principles of Naval Management I</td>
<td>3</td>
<td></td>
<td>Theory and principles of management, focusing on the officer-manager as an organizational decision maker. Includes interpersonal skills, behavior factors, and group dynamics.</td>
</tr>
<tr>
<td>NSC 2931</td>
<td>Directed Study in Naval ROTC</td>
<td>1-3</td>
<td></td>
<td>Intensive individualized study in particular aspects of Naval Science that are not covered in regular course offerings. Enrollment is recommended for NROTC students who are anticipating attending the Naval Science Institute in Newport, RI, during sophomore/junior summer. Course content and title may vary from term to term.</td>
</tr>
<tr>
<td>NSC 3123</td>
<td>Naval Ships Systems II</td>
<td>3</td>
<td>NSC 2121</td>
<td>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>
</tr>
<tr>
<td>NSC 3214C</td>
<td>Navigation/Naval Operations II: Seamanship and Ship Operations</td>
<td>3</td>
<td>NSC 2212C</td>
<td>International and inland rules of the road; relative motion-vector analysis; ship handling, employment, and tactics, aloft communications; and operations analysis. Laboratory required.</td>
</tr>
<tr>
<td>NSC 3225</td>
<td>Fundamentals of Maneuver Warfare</td>
<td>3</td>
<td></td>
<td>This course analyzes the United States Marine Corps as the overarching case study for the advent of maneuver warfare.</td>
</tr>
<tr>
<td>NSC 4224</td>
<td>Amphibious Warfare</td>
<td>3</td>
<td></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</td>
<td>Principles of Naval Management II (Leadership and Ethics)</td>
<td>3</td>
<td>NSC 2231</td>
<td>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>
</tr>
<tr>
<td>NSP 3147</td>
<td>Web-Based Education for Staff Development</td>
<td>3</td>
<td></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>NSP 3640</td>
<td>Introduction to Military and Veteran Healthcare</td>
<td>3</td>
<td></td>
<td>This course will provide an introduction to the military/veteran culture and the healthcare needs and concerns related to this unique population.</td>
</tr>
<tr>
<td>NSP 3875</td>
<td>Digital Health</td>
<td>3</td>
<td></td>
<td>Students will explore Digital Health technologies and their use in meeting consumer needs. The course emphasizes empowering patients and consumers to safely obtain information, services, and support through effective use of communication technologies.</td>
</tr>
<tr>
<td>NSP 4095</td>
<td>Registered Nurse First Assistant Course</td>
<td>3</td>
<td></td>
<td>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).</td>
</tr>
<tr>
<td>NSP 4148</td>
<td>Simulation for Nursing Practice</td>
<td>3</td>
<td></td>
<td>This course is designed to explore the knowledge, skills, and competencies needed to develop, implement and evaluate the integration of simulation into nursing curriculum. It examines the educational theories and simulation framework.</td>
</tr>
<tr>
<td>NSP 4485</td>
<td>Interdisciplinary Perspectives of HIV</td>
<td>3</td>
<td></td>
<td>This course introduces students, across disciplines, to biological, clinical and psychosocial perspectives of HIV. As such, the course demonstrates how interdisciplinary scholarship and practice can deepen our understanding of the complexities of HIV.</td>
</tr>
<tr>
<td>NSP 4545</td>
<td>Substance Abuse Across the Lifespan</td>
<td>3</td>
<td></td>
<td>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.</td>
</tr>
</tbody>
</table>
**NSP 4614 Preventative Cardiology for Healthcare Professionals (3)**
This course focuses on knowledge and evidence-based guidelines for prevention and management of modifiable risk factors for atherosclerotic cardiovascular disease and is appropriate for individuals with knowledge of pathophysiology and pharmacology.

**NSP 4855 Skills for Nursing Staff Development Educator (3)**
This course provides the learner with theoretical foundations and skill to function in a nursing professional development position. Principles of adult education, communication skills and educational technological advances will be explored.

**NSP 4880 Foundations of Healthcare QI & Patient Safety (3)**
PR: NUR 4828C with a minimum grade of C
Provides foundational principles, concepts and methods for promoting and improving healthcare quality and patient safety at the micro-, meso-, and macro-system levels with a focus on application at the micro-system level.

**NSP 4881 Healthcare Human Resources Systems and Strategies (3)**
This course will provide students with an understanding of systems and strategies necessary to effectively manage human resources in healthcare settings. Quality clinical care is dependent on effectively recruiting, retaining and developing staff.

**NSP 4886 Team Strategies for Improving HC & Patient Safety (3)**
This course covers strategies and tools for improving health care quality and safety using the TeamSTEPPS® framework. Strategies for enhancing team performance are emphasized. TeamSTEPPS Master Trainer certification is awarded upon successful completion.

**NUR 3026L Patient Centered Care: Essentials of Nursing Practice Clinical (2)**
CR: NUR 3026
Focus is to provide the student with experience in the promotion of wellness and prevention of illness in the clinical arena. Students will provide safe clinical care and therapeutic communication with clients in selected settings.

**NUR 3027L Patient Centered Care: Essentials of Nursing Practice Lab (1)**
CR: NUR 3026, NUR 3026L
Focuses on preparing students for clinical experiences by developing foundational nursing skill techniques in the laboratory that will be used to provide safe and effective patient centered care to patients from all cultures.

**NUR 3066 Health Assessment, Wellness, and Prevention Across the Life Span (2)**
CR: NUR 3066L
Focus is on physical assessment and health promotion of individuals across the lifespan. Included are the use of techniques and instruments necessary for the examination, as well as wellness promotion initiatives.

**NUR 3066L Health Assessment, Wellness, and Prevention Across the Life Span Lab (1)**
CR: NUR 3066
Physical application of the techniques and instruments necessary for the examination of infants, children and adults. Included are models of wellness and health promotion of individuals across the lifespan.

**NUR 3078 Information Technology Skills for Nurses (1)**
CR: NUR 3085.
Introduction to information technology in order to enhance efforts and improve communication in the classroom and workplace environment. Focuses on developing technical skills and knowledge.

**NUR 3081 Bridge to Professional Nursing (4)**
This course assists in transitioning military medic/corpsmen to professional registered nursing practice. Addresses clinical reasoning and communication skills when applying concepts of health to nursing needs of individuals/families across the lifespan.

**NUR 3081L Bridge to Professional Nursing Practice (2)**
Facilitates transition from military medic/corpsman to clinical nursing practice using nursing process. Provides opportunities to apply clinical reasoning and therapeutic communication skills in meeting nursing needs of individuals and families.
COURSE DESCRIPTIONS
(AS OF MARCH 1, 2019)

UNIVERSITY OF SOUTH FLORIDA 2019-20 UNDERGRADUATE CATALOG

<table>
<thead>
<tr>
<th>COURSE CODE</th>
<th>COURSE TITLE</th>
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</thead>
<tbody>
<tr>
<td>NUR 3125</td>
<td>Pathophysiology for Nursing Practice (3)</td>
</tr>
<tr>
<td>NUR 3145</td>
<td>Pharmacology in Nursing Practice (3)</td>
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<tr>
<td>NUR 3225</td>
<td>Complex Health Nursing I (3)</td>
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<tr>
<td>NUR 3225L</td>
<td>Complex Health Nursing I Clinical (3-4)</td>
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<tr>
<td>NUR 3678</td>
<td>Nursing Healthcare for Vulnerable Populations (3)</td>
</tr>
<tr>
<td>NUR 3805</td>
<td>Nursing as a Profession (2)</td>
</tr>
<tr>
<td>NUR 3825</td>
<td>Introduction to the Profession of Nursing (2)</td>
</tr>
<tr>
<td>NUR 3826</td>
<td>Ethical/Legal Aspects in Nursing and HealthcareCare (3)</td>
</tr>
<tr>
<td>NUR 3843</td>
<td>Problem Solving and Critical Thinking in Professional Nursing I (1)</td>
</tr>
<tr>
<td>NUR 3844</td>
<td>Problem Solving and Critical Thinking in Professional Nursing II (1)</td>
</tr>
<tr>
<td>NUR 4069</td>
<td>Health Assessment for Registered Nurses (3)</td>
</tr>
<tr>
<td>NUR 4128</td>
<td>Pathophysiology/Pharmacology (3)</td>
</tr>
<tr>
<td>NUR 4165</td>
<td>Evidence-Based Practice (3)</td>
</tr>
<tr>
<td>NUR 4169C</td>
<td>Evidence-Based Practice for Bacc Prepared Nurse (3)</td>
</tr>
<tr>
<td>NUR 4227</td>
<td>Complex Health Nursing II (4)</td>
</tr>
</tbody>
</table>

For Current Course Inventory, see [https://www.systemacademics.usf.edu/course-inventory/](https://www.systemacademics.usf.edu/course-inventory/)
NUR 4227L Complex Health Nursing II Clinical (4-5)  
PR: NUR 3225 with a minimum grade of C, NUR 3225L with a minimum grade of S  
CR: NUR 4227  
Focus is on student clinical experiences for care of clients and families with complicated acute illnesses in the adult population. Emphasis on safe evidence based care and evaluation of healthcare outcomes.

NUR 4285 Healthy Aging: Nursing Care of Older Adults (2)  
This course focuses on the development & mastery of gerontology core competencies as identified as essential components of baccalaureate nursing ed necessary to provide holistic, evidence-based, & patient-centered care to the older adult population.

NUR 4355 Child and Adolescent Health Nursing (3)  
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  
CPR: NUR 4636.  
Focuses on the physiologic and psychosocial needs of women, newborns and families related to fertility and infertility, pregnancy and birth.

NUR 4455 Women's Health Nursing (2)  
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 4355; CP: NUR 4635L or NGR 5680L, NUR 4636.  
Focuses on the 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 4467 Nursing Care of Women, Children, and Families Clinical (2-4)  
PR: NUR 3026 with a minimum grade of C, NUR 3026L with a minimum grade of S  
CR: NUR 4467  
Focus is on nursing care designed to prevent and reduce risk of disease and injury, promote health, and treat illness and injury of the family during the childbearing, parenting, and child developmental phases in a variety of clinical settings.

NUR 4535 Psychiatric Mental Health Nursing (3)  
PR: NUR 3225 with a minimum grade of C, NUR 3225L with a minimum grade of S  
CR: NUR 4535L  
Explores alterations in health experienced by patients with acute and chronic mental illness. Examines psychopathology, psychopharmacologic therapies, community resources and the role of the nurse in mental health.

NUR 4535L Psychiatric/Mental Health Nursing Clinical (2)  
PR: NUR 3225 with a minimum grade of C, NUR 3225L with a minimum grade of S  
CR: NUR 4535  
Focus is on clinical interventions using critical thinking & communication skills with patients who require complex psychiatric care. Emphasis is on knowledge & application of psychopathology & psychopharmacologic therapies across the lifespan.

NUR 4634C Population Health (3)  
PR: NUR 4169C with a minimum grade of C, NUR 4828C with a minimum grade of C  
CPST, GCPC, GCPC, TGEE  
Synthesis of theory & epidemiology enabling students to promote health & wellness in populations. Current practices, policies, & laws will be explored in relation to environment, infectious disease, vulnerable populations, & global health care issues.

NUR 4635 Public Health Nursing (3)  
PR: NUR 4227 with a minimum grade of C  
CR: NUR 4635L  
6ACT, 6ACT, CPST, GCPC, GCPC  
An in-depth analysis of public health nursing equips students to focus on the community as the client. Students will utilize the nursing process to evaluate community health issues and to promote health among diverse and vulnerable populations.
### NUR 4635L Public Health Nursing Clinical (1-3)
- **PR:** NUR 4227 with a minimum grade of C, NUR 4227L with a minimum grade of S
- **CR:** NUR 4635
- The course provides clinical experiences in community-based sites in both urban and rural settings. The focus is on nursing care designed to prevent and/or reduce risk of disease and injury, promote health and wellness across diverse populations.

### NUR 4636L Community/Public Health Nursing Clinical (3)
- **PR:** NUR 3215, NUR 3525 or NUR 3535, NUR 4216 and NUR 3215L, NUR 4216L and NUR 3525L or NUR 3535L
- **CR:** NUR 4636
- **CPR:** 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 4795 Cancer Symptom Management (3)
Students taking this course will learn about nursing management of common side effects of cancer and cancer treatments.

### NUR 4807C Leadership & Education Transitions for RNs (3)
- **PR:** NUR 3805 with a minimum grade of C
- **TGEH**
- Overview of leadership essentials, organizational theories and strategies required in complex, patient-centered healthcare environments, including communication, quality/safety, ethics, and inter-professional practice incorporating community engagement.

### NUR 4850 Fundamentals of Healthcare Finance for Nurses and Nurse Leaders (3)
- **PR:** NUR 4828C, with a minimum grade of C
- This course provides the nurse and nurse leader with fundamental knowledge and tools to promote fiscal accountability and effective healthcare.

### NUR 4888 Coordination of Care in Nursing (2-3)
Complexity of patient care requires multiple providers across settings. Effective coordination of care and transition management improves outcomes and contributes to high value care. Focus is on care coordination emphasizing collaboration and teamwork.

### NUR 4895 Educational Role of the Nurse in Healthcare (3)
- **CR:** NUR 3805, NUR 3078.
- Provides the learner with an opportunity to gain knowledge and skills to facilitate the teaching role of the nurse in educating patients and their families as well as nursing and healthcare staff.

### OCE 2001 Introduction to Oceanography (3)
- **CANP, SMEL, SMNS**
- This is a class in basic oceanography covering chemical (what is the sea made of), physical (tides, currents, waves), geological (ocean floor and coasts) and biological (all life in the oceans) aspects, and their interactions.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>OCE 4930</td>
<td>Selected Topics in Marine Science (1-3)</td>
<td>Selected topics in marine science including marine biology, marine chemistry, marine geology and geophysics, physical oceanography, and interdisciplinary topics relating to marine environments.</td>
</tr>
<tr>
<td>ORI 3004</td>
<td>Communication as Performance (3)</td>
<td>Designed to develop an understanding of performance as a communicative process and as a method through which to study communication. This course emphasizes the ways performance communicates social, cultural, and political perspectives and identities.</td>
</tr>
<tr>
<td>ORI 3950</td>
<td>Communication As Performance Laboratory (1-3)</td>
<td>The study, rehearsal, and performance of literature for Readers Theatre and Chamber Theatre productions.</td>
</tr>
<tr>
<td>ORI 4019</td>
<td>Performing Identity and Culture (3)</td>
<td>GCPC, GCPC Focuses on theory and practice of identity and culture as performed in ritual, community, and aesthetic contexts.</td>
</tr>
<tr>
<td>ORI 4120</td>
<td>Performance of Poetry (3)</td>
<td>Critical appreciation of lyric and narrative poetry and communication of that appreciation to audience. Study of poetic theory and prosodic techniques.</td>
</tr>
<tr>
<td>ORI 4150</td>
<td>Performing Nonfiction (3)</td>
<td>Explores the genre of nonfiction, including diaries, memoirs, travelogues, new journalism, personal essays, and weblogs, through performance.</td>
</tr>
<tr>
<td>ORI 4220</td>
<td>Performing Young Adult Literature (3)</td>
<td>Performance of literature written for young adults with an emphasis on cultural values and beliefs.</td>
</tr>
<tr>
<td>ORI 4310</td>
<td>Group Performance of Literature (3)</td>
<td>PR: ORI 3004, with a grade of C or above Designed to introduce the student to and give experience in various forms of group approaches to performance.</td>
</tr>
<tr>
<td>ORI 4320</td>
<td>Writing for Performance (3)</td>
<td>Explores the intersection of writing and performance as aesthetic and communicative practices.</td>
</tr>
<tr>
<td>ORI 4410</td>
<td>Performance Art (3)</td>
<td>Explores history, criticism, and practice of performance art as a genre of performance.</td>
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<tr>
<td>ORI 4460</td>
<td>Performing Relationships (3)</td>
<td>Explores interpersonal, organizational, and intercultural theories of human relationships as realized in literary texts through performance.</td>
</tr>
<tr>
<td>ORI 4931</td>
<td>Performance and Video (3)</td>
<td>This course features adaptation, direction, and performance of literature for video productions.</td>
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<tr>
<td>ORI 5930</td>
<td>Topics in Performance Genres (3)</td>
<td>Variable topics course.</td>
</tr>
<tr>
<td>OSE 4601</td>
<td>Optical Product Technology (3)</td>
<td>PR: EML 3500, EGN 3343, both with a minimum grade of C or better 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.</td>
</tr>
<tr>
<td>PAD 3003</td>
<td>Introduction to Public Administration (3)</td>
<td>Examination of organizational behavior and change, policy process, public management, financial administration, and personnel management from the perspective of public and social delivery.</td>
</tr>
<tr>
<td>PAD 4144</td>
<td>Nonprofit Organizations and Public Policy (3)</td>
<td>Role and importance of third sector (voluntary) organizations in American society; focus on public policy through service in a voluntary organization.</td>
</tr>
<tr>
<td>PAD 4204</td>
<td>Public Financial Administration (3)</td>
<td>Analysis of problems in the growth and development of public budgetary theory and Federal budgetary innovations.</td>
</tr>
<tr>
<td>PAD 4415</td>
<td>Personnel &amp; Supervision in Today's Diverse Organizations (3)</td>
<td>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.</td>
</tr>
<tr>
<td>PAD 4712</td>
<td>Managing Information Resources in the Public Sector (3)</td>
<td>Introduces students to the fundamental concepts, theories, principles and practices in public information management. Internet access is required.</td>
</tr>
<tr>
<td>PAD 4930</td>
<td>Selected Topics in Public Administration and Public Policy (3)</td>
<td>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.</td>
</tr>
<tr>
<td>COURSE DESCRIPTIONS</td>
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<tr>
<td>UNIVERSITY OF SOUTH FLORIDA 2019-20 UNDERGRADUATE CATALOG</td>
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<tr>
<td>PAD 5035 Issues in Public Administration and Public Policy (3)</td>
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<tr>
<td>Selected issues and topics in Public Administration and Public Policy.</td>
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<tr>
<td>PAD 5044 Environment of Public Administration (3)</td>
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<tr>
<td>Examination of the legal, political, and ethical environment in which public managers work.</td>
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<tr>
<td>PAD 5605 Administrative Law and Regulation (3)</td>
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<tr>
<td>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.</td>
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<tr>
<td>PAD 5700 Research Methods in Public Administration (3)</td>
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<tr>
<td>Research design; skills in public agencies. Must be prepared to demonstrate proficiency in EXCEL, Access, and other relevant software programs.</td>
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<tr>
<td>PAD 5807 Urban and Local Government Administration (3)</td>
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<tr>
<td>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.</td>
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<tr>
<td>PAD 5836 Comparative Public Administration (3)</td>
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<tr>
<td>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.</td>
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<tr>
<td>PCB 3023 Cell Biology (3)</td>
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<tr>
<td>CR: CHM 2210</td>
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<tr>
<td>Cell Biology is the study of living properties of cells and encompasses a broad area of the life sciences that includes cellular physiology and life cycle, organelle structure and function, and biomolecular structure and function.</td>
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<tr>
<td>PCB 3023L Cell Biology Laboratory (1)</td>
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<tr>
<td>CPR: PCB 3023.</td>
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<tr>
<td>Laboratory portion of Cell Biology. Metabolic processes within the cell.</td>
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<tr>
<td>PCB 3043 Principles of Ecology (3)</td>
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<tr>
<td>An introduction to the basic principles and concepts of ecology at the ecosystem, community, and population level of organization. Lecture only.</td>
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<tr>
<td>PCB 3043L Principles of Ecology Laboratory (1)</td>
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<tr>
<td>CPR: PCB 3043.</td>
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<tr>
<td>Laboratory portion of PCB 3043, Principles of Ecology.</td>
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<tr>
<td>PCB 3063 General Genetics (3)</td>
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<tr>
<td>PR: BSC 2010, BSC 2010L, BSC 2011, BSC 2011L and CHM 2045, CHM 2046 and MAC 1105 or higher-level MAC course or STA 2023.</td>
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<tr>
<td>CPR: CHM 2210.</td>
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<tr>
<td>Introduction to genetics including the fundamental concepts of Mendelian, molecular and population genetics. Lecture only.</td>
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<tr>
<td>PCB 3063L General Genetics Laboratory (1)</td>
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<tr>
<td>CPR: PCB 3063.</td>
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<tr>
<td>Laboratory investigation techniques in general genetics including Mendelian and non-Mendelian relationships, and gene interactions.</td>
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<tr>
<td>PCB 3712 General Physiology (3)</td>
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<tr>
<td>PR: BSC 2010, BSC 2010L, BSC 2011, BSC 2011L and CHM 2045, CHM 2046 and MAC 1105 or higher-level MAC course or STA 2023.</td>
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<tr>
<td>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.</td>
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<tr>
<td>PCB 3713L General Physiology Laboratory (1)</td>
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<tr>
<td>CPR: PCB 3712.</td>
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<tr>
<td>Laboratory portion of General Physiology.</td>
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<tr>
<td>PCB 4024 Molecular Biology of the Cell (3)</td>
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<tr>
<td>PR: PCB 3023, PCB 3063, MCB 3410</td>
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<tr>
<td>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.</td>
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<tr>
<td>PCB 4026 Molecular Biology of the Gene (3)</td>
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<tr>
<td>PR: PCB 3023, PCB 3063, MCB 3410</td>
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<tr>
<td>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.</td>
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</tbody>
</table>

For Current Course Inventory, see [https://www.systemacademics.usf.edu/course-inventory/](https://www.systemacademics.usf.edu/course-inventory/)
PCB 4109 Cancer Biology (3)  
PR: MCB 3410, PCB 3023, PCB 3063  
This course will provide a background in basic cancer biology, including genetics, cellular physiology and metabolism associated with cancer development. Aspects of drug therapy and discovery will be considered.

PCB 4234 Principles of Immunology (3)  
PR: PCB 3023  
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 4315 Marine Ecology (3)  
PR: BSC 3312 with a minimum grade of C  
Develop understanding of contemporary marine research. Topics include: reproductive strategies, deep-sea adaptations, biogeography, biodiversity studies, migrations, primary productivity, microbial loop, ecosystem diversity and marine conservation efforts.

PCB 4402 Disease Ecology (3)  
PR: BSC 2010 and BSC 2011 both with a minimum grade of C  
Introduction to the interdisciplinary field of disease ecology, and its importance and application in public health. Examination of host-pathogen interactions, and the influence of environmental and ecological factors on the spread of disease.

PCB 4522C Experimental Genetics and Cell Biology (3)  
PR: PCB 3023, PCB 3063 and PCB 3023L or PCB 3063L  
This course will teach students how to utilize and integrate concepts from genetics and cell biology in a research laboratory environment using current scientific literature, model organisms and molecular techniques.

PCB 4663 Human Genetics (3)  
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)  
PR: PCB 3063.  
The study of evolution at the molecular level and how it is applied to cell and molecular biology.

PCB 4674 Organic Evolution (3)  
PR: PCB 3063.  
An introduction to modern evolutionary theory. Lecture on population genetics, adaptations, speciation theory, phylogeny, human evolution and related areas. Lec.-dis.

PCB 4723 Animal Physiology (3)  
PR: PCB 3712, CHM 2210, PHY 2053 and MAC 1105 or higher-level MAC course or STA 2023.  
CPR: CHM 2211.  
Advanced presentation of mechanisms employed by animals to interact with their environment and to maintain their organization. Lecture only.

PCB 4723L Animal Physiology Laboratory (1)  
CR: PCB 4723.  
Laboratory portion of Animal Physiology.

PCB 4744 Biomedical Physiology (3)  
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)  
PR: PCB 4723 and CHM 2210 and MAC 1105 or higher-level MAC course or STA 2023 and PHY 2053.  
CPR: 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)  
PR: ZOO 4695.  
Topics in modern developmental biology to be covered in lecture and through readings so as to gain a detailed understanding of cellular and molecular mechanisms of differentiation and pattern formation in various eukaryotic species for majors/non-majors.

PCB 5307 Limnology (3)  
PR: PCB 3043 and CHM 2210 and MAC 1105 or higher-level MAC course or STA 2023 and PHY 2053.  
CPR: CHM 2211.  
An introduction to the physical, chemical, and biological nature of fresh-water environments. Lecture only.

PCB 5307L Limnology Laboratory (1)  
CPR: PCB 5307.  
Laboratory portion of Limnology. Laboratory and field experience in the area of aquatic ecology.
PCB 5616 Molecular Phylogenetics (3)
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)
Introductory experience in the sport of golf. Fundamental skills, information, strategy, and participation.

PEL 1341 Tennis I (2)
Introductory experiences in the sport of tennis. Basic skills, playing strategies, lecture, demonstration, and participation.

PEL 2122 Golf II (2)
Continuation of PEL 1121. Emphasis on course play and refinement of strokes.

PEL 2342 Tennis II (2)
Continuation of PEL 1341. Refinement of basic skills, supplementary strokes, greater emphasis on tactics and playing strategies.

PEL 2441 Racquetball (2)
Development and refinement of the skills and strategies of racquetball with opportunity for competition and tournament play.

PEM 2131 Weight Training (2)
Knowledge and techniques necessary for increasing muscle function. Assessment of status and development of a personal program

PEM 2441 Karate (2)
Introductory experiences in the sport of Karate. Fundamental skills, strategy, information, and participation.

PEM 2930 Selected Topics (1-2)
Activities offered are selected to reflect student need and faculty interest.

PET 3031 Motor Behavior (3)
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)
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)
This course will focus on the health and physiological 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)
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)
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)
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)
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)
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)
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)
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)
**GCPC**
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)
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)
In developing group exercise leadership skills, students will learn how to apply principles of teaching safe and effective exercises designed to enhance cardiovascular endurance, muscular strength/endurance, and flexibility.

## PET 3931 Selected Topics in Sports Medicine (1-3)
Topics offered are selected to reflect student need and faculty interest.

## PET 3940 Practicum in Fitness/Wellness (3)
This course will provide the initial field experience in a community fitness/wellness center serving general populations. Students will gain practical experience with regard to teaching group exercise and conducting fitness testing and prescription.

## PET 4088 Individualized Fitness/Wellness Programming (3)
**CPST**
In this course students will learn how to assess, evaluate, and design safe and effective programs for individual clients. Students will also learn how to incorporate appropriate activities for specialized clients or populations.

## PET 4093 Strength and Conditioning (3)
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)
A presentation of the basic concepts related to exercise behavior. The content will include topics related to the psychosocial dimensions of exercise behavior to include participation, motivation, and adherence. Theoretical models will also be presented.

## PET 4380 Applied Exercise Science (3)
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)
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)
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)
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 & Content: Physical Education Elementary I (3)
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 & Content: Physical Education Elementary II (3)
This course prepares students to select, plan and conduct complex movement experiences for K-6 students.

## PET 4442 Instructional Design and Content: Physical Education Secondary (3)
Development of knowledge and skills related to the teaching of selected movement activities such as team sports, gymnastics, and physical fitness. Focus is on understanding mechanical principles utilized within those activities as well as on instructional progression and the preparation of materials for instruction at the secondary school level.
PET 4510 Measurement and Evaluation in Physical Education (3)
A study of the principles and techniques of educational measurement as applied to the teaching of physical education; study of the functions and techniques of measurement in the evaluation of student progress toward the objectives of physical education.

PET 4550 Clinical Exercise Testing and Prescription (3)
A presentation of concepts related to the clinical aspects of fitness assessment and exercise programming. Clinical conditions that will be considered include: cardiovascular disease, pulmonary disease, metabolic disease, arthritis, and geriatrics.

PET 4742 Secondary Physical Education Methods: Physical Act (3)
The course will prepare students to plan and conduct PE programs which meet National and State Content Standards related to physical activity, fitness, nutrition, and healthy living concepts. PE majors only. Not repeatable for credit.

PET 4765 Scientific Principles of Athletic Coaching (3)
The application of principles from philosophy, psychology, sociology, and physiology to competitive athletics and coaching.

PET 4820 Sport Skill Proficiency (2)
This course is designed to assist students in becoming proficient in and acquiring a foundation of the fundamental physical skills necessary to participate in and teach a variety of individual and team sports. Course restricted to PE majors.

PET 4905 Independent Study: Professional Physical Education (1-4)
Specialized independent study determined by the student's needs and interests.

PET 4929 Senior Seminar in Physical Education (3)
CR: PET 4946 and PET 4947
CPST
Students engage in self-reflection and synthesis of university coursework and K-12 physical education final internship experiences.

PET 4941 Internship in Fitness/Wellness (9)
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)
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)
A part time internship in middle or high school level physical education with focus on the relationship of physical education to the needs of the adolescent and the implementation of appropriate content and methodology.

PET 4946 Internship in Physical Education: Elementary (6)
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)
CR: PET 4946 and PET 4929
A full-day internship in middle, junior or senior high school physical education programs with focus on the implementation of appropriate content and methodology to meet the needs of secondary students.

PET 5769 Principles and Issues in Coaching (3)
This course is designed to provide a broad examination of many basic issues involved in coaching. The primary point is of a philosophical nature and in these discussions, students have the opportunity to form their own values in regards to sports.

PGY 2401C Beginning Photography (3)
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)
A mid level course expanding the student’s visual and technical skills while establishing the beginning of a personal artistic direction.
### PGY 3610C Photojournalism I (3)
- **PR:** MMC 2100 and MMC 3602. Laboratory required.
- Fundamentals of news and feature photography. Camera operation, picture composition, darkroom techniques, editing in digital format with introduction to software applications. History, ethics and law of photojournalism.

### PGY 3620 Photojournalism II (3)
- **PR:** PGY 3610C. Laboratory required.
- Advanced process and practice of photography for publication.

### PGY 3820C Digital Media I (3)
- 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)
- **PR:** ART 2201C, ART 2203C, ARH 2050, ARH 2051, ART 2301C, ART 3310C, PGY 2401C, PGY 3410C.
- 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)
- **PR:** ART 3939, ARH 4450, ARH 4475C, PGY 3410C (3 cr.), PGY 3930C (9 cr.) and a 3.25 major GPA.
- Continued problems in photography.

### PHC 2100 Introduction to Public Health (3)
- 6ACT, TGEC
- A course serving as primer to study of public health. Provides overview of core disciplines of public health, and platform for future undergraduate study in public health.

### PHC 3302 Introduction to Environmental & Occupational Health (3)
- 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)
- 6ACT, TGEC
- 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 4030 Introduction to Epidemiology (3)
- GCPC, GCPC
- Course provides an overview of epidemiological methods and the application to understanding health- and non-health issues. Students will develop critical thinking skills and apply the concepts applied problems, both in and outside the field of health.

### PHC 4031 Emerging Infectious Diseases (3)
- This course addresses important infectious diseases and the principles of detection, diagnosis, prevention and control as well as the impact on public health. Students will presenting information on emerging infectious disease trends in group projects.

### PHC 4032 Foundations of Infection Control (3)
- This course is based on infection control competencies from the board certification in infection control exam. With successful completion of this course, students will demonstrate mastery and application of these principles to real-world situations.

### PHC 4069 Biostatistics in Society (3)
- 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 Overview of Public Health Programs and Policies (3)
- GCPC, GCPC
- A survey of policies and programs in public/community health with emphasis on specific needs and problems of Florida.

### PHC 4117 Workforce & Leadership Development (3)
- This course will provide students with an overview of the skills that are necessary to find and obtain employment in the field of public health. It will also cover leadership styles & skills so that students can succeed as public health professionals.

### PHC 4140 Introduction to Public Health Geographic Information Systems (3)
- This course covers the theory and application of geographic information systems (GIS) for public health and includes an overview of the principles of GIS and its use.
### PHC 4141 Intervention Program Planning and Management (3)
The purpose of this course is for students to describe and implement the basic principles of health education intervention planning, management, and evaluation. Students will present their program to fellow class members.

### PHC 4188 Public Health Emergencies in Large Populations (3)
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)
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)
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 4250 Crisis Leadership in Disasters (3)
GCPC, GCPC
Explore analytical and intuitive aspects of leadership during disasters including the root cause of domestic and international disaster prevention, preparedness, response, recovery, and mitigation challenges while identifying solutions to complex problems.

### PHC 4375 Community Participation in Homeland Security (3)
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)
GCPC
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 4431 Economic Rationale of Health Policy (3)
PR: PHC 2100, HSC 4630
This course introduces the economic rationale for policies that regulate health care markets, focusing on the market failures that triggered policy changes and the successes and failures of those policies.

### PHC 4464 Introduction to Health Disparities & Social Determinants (3)
6ACT, GCPC, GCPC, TGED
This course provides an overview of health disparities. We will examine social and cultural determinants of health, including race/ethnicity, geography, SES, gender, sexual orientation, disability status, migration status, age, religion and spirituality.

### PHC 4501 Health Education Theory and Behavior (3)
Development of a basic understanding of the major theories and models focused on the development, implementation, and evaluation of health education interventions.

### PHC 4582 Health Education Methods and Strategies (3)
The purpose of this course is for students to describe and develop those health education methods, communication, and advocacy strategies to enhance the public's health.

### PHC 4720 Foundation to Professional Writing in Public Health (3)
6ACT, 6ACT, TGEI, WRIN
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 4755 Foundations of Evaluation and Research in Public Health (3)
6ACT, GCPC, GCPC, TGEC
Course covers evaluation and research including literature reviews; ethical issues; differences between evaluation and research; define quantitative and qualitative, use of spreadsheet for budgets and data analysis, and communication of results.

### PHC 4931 Health Care Ethics (3)
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)
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)
Provides students the opportunity to learn about the multiple ways to view controversial topics in public health. It covers current public health topics including biomedical issues, social and behavioral factors, and environmental issues.

PHH 3062 History of Western Philosophy: Ancient Philosophy (3)
A survey of Western philosophy from the Pre-Socratics to Late Antiquity.

PHH 3280 Medieval and Renaissance Philosophy (3)
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 3400 History of Philosophy - Modern (3)
A survey of western philosophy from the end of the middle ages to the nineteenth century

PHH 3420 Early Modern Philosophy (3)
A survey of Western Philosophy from the end of the Renaissance to the beginnings of the Enlightenment.

PHH 3442 Late Modern Philosophy (3)
A survey of Western Philosophy during the Enlightenment.

PHH 4440 Continental Philosophy (3)
6ACT, 6ACT, WRIN
A study of developments in post-Kantian European philosophy.

PHH 4600 Contemporary Philosophy (3)
6ACT, 6ACT
Selected schools of twentieth century thought such as idealism, positivism, pragmatism, realism, and existentialism.

PHH 4700 American Philosophy (3)
6ACT, 6ACT
Major traditions in American thought, Puritanism, the Enlightenment, Transcendentalism, Idealism, Pragmatism, and Analytic Philosophy in relation to American culture.

PHH 4820 Chinese Philosophy (3)
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 (3)
6ACT, 6ACT, CASB
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 (3)
CANP
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 (3)
6ACT, CAHU, HHCP, TGEC
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 Philosophy (3)
6ACP, 6ACT, 6ACT, CAHU, SGEH, SMHU, SPHU
An introduction to several major themes in philosophy, as well as central philosophical concepts, texts, and methods.

PHI 2630 Contemporary Moral Issues (3)
6ACP, SPHU
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 (3)
An application of traditional ethical theories to contemporary problems in business.

PHI 2630 Contemporary Moral Issues (3)
6ACP, SPHU
An introduction to the basic terms, concepts, and methods of formal logic.

PHI 2631 Ethics and Business (3)
An application of traditional ethical theories to contemporary problems in business.

PHI 3130 Formal Logic (3)
PR: PHI 2101 or MGF 1106 or MGF 1107 or one semester of calculus.
6AMT, 6AMT, CAQR
A study of predicate calculus, predicate calculus with identity, formal semantics, and elementary metalogic. Strongly recommended for philosophy majors.
COURSE DESCRIPTIONS

UNIVERSITY OF SOUTH FLORIDA 2019-20 UNDERGRADUATE CATALOG

PHI 3403 Paradoxes, Pathologies, and Provocations in Science (3)
6ACT, TGEI
Conflict in the practice of science takes many forms, from collegial disagreement to outright fraud. We consider both the science and the philosophy of areas such as evolution, quantum physics, climate change, and polywater.

PHI 3404 Philosophy of Science (3)
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)
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)
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 (3)
A study of alternative theories of environmental ethics, including the application of these theories to contemporary environmental problems, such as pollution, resource depletion, species extinction, and land use.

PHI 3700 Philosophy of Religion (3)
6ACT, 6ACT
Analysis of religious experience and activity and examination of principal religious ideas in light of modern philosophy.

PHI 3930 Selected Topics (1-3)
Selected topics according to the needs of the student.

PHI 4073 African Philosophy (3)
A descriptive and analytical study of African philosophical thought, featuring reflective comparisons of African and Western categories of thought.

PHI 4300 Theory of Knowledge (3)
6ACT, 6ACT
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 (3)
6ACT, 6ACT, WRIN
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 (3)
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)
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 (3)
6ACT, 6ACT
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)
Individual study directed by a faculty member.

PHI 4930 Selected Topics (1-3)
Selected topics according to the needs of the senior students.

PHI 4938 Philosophy Capstone Seminar (3)
6ACT, 6ACT, CPST
Exit course for philosophy majors. Topics will vary at instructorâ€™s discretion, but are expected to span conventional boundaries between the branches of philosophical inquiry.

PHI 5135 Symbolic Logic (3)
PR: PHI 2101
Study of topics such as the following: Metatheory of propositional and predicate logic, related metatheoretic results, alternative logic.

PHI 5225 Philosophy of Language (3)
PR: Eight hours of philosophy
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)
Individual research supervised by a faculty member.
PHI 5934 Selected Topics (1-3)  
Selected topics according to the needs of the student.

PHM 3020 Philosophies of Love and Sex (3)  
Discussion of Philosophies of Love/Sex of Plato, Aristotle, Epicurus, Aquinas, Hume, Kant, Schopenhauer, Russell, Sartre, Marx, etc.

PHM 3100 Social Philosophy (3)  
6ACT, 6ACT  
An analysis of rival theories of social order and their philosophical foundations.

PHM 3400 Introduction to Philosophy of Law (3)  
A study of the fundamental concepts of law from a philosophical standpoint including crime, justice, punishment, free speech, insanity.

PHM 4120 Major Black Thinkers (3)  
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 4311 Modern Political Philosophy (3)  
6ACT, 6ACT, WRIN  
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 (3)  
6ACT, 6ACT  
A survey of political philosophy in the twentieth century, including an examination of the ethical, metaphysical and epistemological bases of these philosophies.

PHM 5126 Social Issues in Biomedical Ethics (3)  
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 (3)  
6ACT, 6ACT  
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 (3)  
6ACT, 6ACT  
The examination of Plato will include the dialogues Protagoras, Georgias, Meno, Republic.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Prerequisites</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHY 2053</td>
<td>General Physics I (3)</td>
<td>PR: MAC 1140 and MAC 1114, or MAC 1147. CR: PHY 2053L CANP, SGEN, SMEL, SMNS</td>
<td>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.</td>
</tr>
<tr>
<td>PHY 2053L</td>
<td>General Physics I Laboratory (1)</td>
<td>CR: PHY 2053</td>
<td>First semester of a two semester sequence of general physics (mechanics, heat, wave motion, sound, electricity, magnetism, optics, modern physics) laboratory for science students.</td>
</tr>
<tr>
<td>PHY 2054</td>
<td>General Physics II (3)</td>
<td>PR: PHY 2053, PHY 2053L CR: PHY 2054L CANP, SMEL, SMNS</td>
<td>Second semester of non-calculus based general physics. Topics studied include electricity and magnetism, optics and modern physics.</td>
</tr>
<tr>
<td>PHY 2054L</td>
<td>General Physics II Laboratory (1)</td>
<td>PR: PHY 2053, PHY 2053L CR: PHY 2054</td>
<td>Second semester of general physics lab for science students.</td>
</tr>
<tr>
<td>PHY 2060</td>
<td>Enriched General Physics I with Calculus (3)</td>
<td>PR: MAC 2311 or MAC 2281 with minimum grade of 'A' CR: PHY 2048L CANP</td>
<td>First semester of an enriched sequence of calculus based general physics designed for physics majors and other students seeking a deeper understanding of mechanics, kinematics, conservation laws, central forces, harmonic motion, and mechanical waves.</td>
</tr>
<tr>
<td>PHY 2061</td>
<td>Enriched General Physics II with Calculus (3)</td>
<td>PR: MAC 2312 or MAC 2282 and PHY 2060 or PHY 2048 with a minimum grade of B CR: PHY 2049L</td>
<td>Second semester of an enriched sequence of calculus based general physics designed for physics majors and other students seeking a deeper understanding of thermodynamics, electricity, magnetism, electromagnetic fields and waves, circuits, and optics.</td>
</tr>
<tr>
<td>PHY 3221</td>
<td>Mechanics I (3)</td>
<td>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.</td>
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<tr>
<td>PHY 3323</td>
<td>Electricity and Magnetism I (3)</td>
<td>PR: PHY 3101 and PHZ 3113. Electrostatic fields and potentials, dielectrics, classical conductivity, RC circuits, Fourier and finite element methods. First semester of sequence PHY 3323, PHY 4324.</td>
<td></td>
</tr>
<tr>
<td>PHY 3822L</td>
<td>Intermediate Laboratory (3)</td>
<td>CPR: PHY 3101. Experiments in modern physics, including the areas of atomic, nuclear, solid state and wave phenomena.</td>
<td></td>
</tr>
<tr>
<td>PHY 4222</td>
<td>Mechanics II (3)</td>
<td>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.</td>
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<tr>
<td>PHY 4324</td>
<td>Electricity and Magnetism II (3)</td>
<td>PR: PHY 3323. Introduction to special relativity, magnetic fields and potentials, magnetic materials, RL and RLC circuits, Maxwell's equations and applications.</td>
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</tr>
<tr>
<td>PHY 4424</td>
<td>Optics (3)</td>
<td>PR: PHY 3101 Reflection, refraction, dispersion, interference, diffraction and polarization.</td>
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<tr>
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<tr>
<td>PHY 4523</td>
<td>Statistical Physics (3)</td>
<td>PR: PHY 3221 or PHY 3323 of PHY 4604</td>
<td>Statistical approach to thermodynamics and kinetic theory and introduction to statistical mechanics.</td>
</tr>
<tr>
<td>PHY 4604</td>
<td>Introduction to Quantum Mechanics (3)</td>
<td>PR: PHY 3101 and PHZ 3113.</td>
<td>Basic concepts of quantum mechanics with applications in atomic, nuclear, and condensed matter Physics.</td>
</tr>
<tr>
<td>PHY 4605</td>
<td>Quantum Mechanics II (3)</td>
<td>PR: PHY 4604.</td>
<td>Second semester of a two-semester sequence in quantum mechanics. Focus given to applications of Schrodinger equation.</td>
</tr>
<tr>
<td>PHY 4744C</td>
<td>Introduction to Electronics and Test Instrumentation (3)</td>
<td>PR: PHY 3822L.</td>
<td>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.)</td>
</tr>
<tr>
<td>PHY 4823L</td>
<td>Advanced Laboratory (3)</td>
<td>PR: PHY 3822L.</td>
<td>Experimental work primarily related to modern physics. Emphasis on experimental techniques used in current research.</td>
</tr>
<tr>
<td>PHY 4905</td>
<td>Independent Study (1-3)</td>
<td></td>
<td>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.</td>
</tr>
<tr>
<td>PHY 4910</td>
<td>Undergraduate Research (1-4)</td>
<td>PR: PHY 2048 or PHY 2053 or PHY 2060, with a minimum grade of C-</td>
<td>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.</td>
</tr>
<tr>
<td>PHY 4930</td>
<td>Undergraduate Seminar (1)</td>
<td></td>
<td>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.</td>
</tr>
<tr>
<td>PHY 4936</td>
<td>Selected Topics in Physics (1-3)</td>
<td></td>
<td>Each topic is a course in directed study and under the supervision of a faculty member.</td>
</tr>
<tr>
<td>PHY 5720C</td>
<td>Electronics for Research (3)</td>
<td></td>
<td>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.</td>
</tr>
<tr>
<td>PHY 5937</td>
<td>Selected Topics in Physics (1-4)</td>
<td></td>
<td>Each topic is a course in directed study under the supervision of a faculty member.</td>
</tr>
<tr>
<td>PHZ 2102</td>
<td>Problems in General Physics I (1)</td>
<td>CR: PHY 2048 or PHY 2053.</td>
<td>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.</td>
</tr>
<tr>
<td>PHZ 2103</td>
<td>Problems in General Physics II (1)</td>
<td>CR: PHY 2049 or PHY 2054.</td>
<td>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.</td>
</tr>
<tr>
<td>PHZ 3113</td>
<td>Mathematical Methods in Physics (3)</td>
<td>PR: PHY 2049 CPR: MAC 2283 or MAC 2313</td>
<td>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.</td>
</tr>
<tr>
<td>PHZ 4434</td>
<td>Materials Physics (3)</td>
<td>PR: PHY 2048, PHY 2049, PHY 3101.</td>
<td>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.</td>
</tr>
<tr>
<td>PHZ 4702</td>
<td>Applications of Physics to Biology and Medicine I (4)</td>
<td>PR: PHY 2054, PHY 2054L or PHY 2049, PHY 2049L</td>
<td>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.</td>
</tr>
</tbody>
</table>
PHZ 4703 Applications of Physics to Biology and Medicine II (4)
PR: PHY 2054, PHY 2054L or PHY 2049, PHY 2049L; PHY 2053
The 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)
PR: MAP 2302 or PHZ 3113
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)
PR: PHZ 5115
Applications of mathematical techniques to classical and modern physics. Selected topics in complex analysis, differential and integral equations, numerical methods, and probability theory.

PHZ 5154C Introduction to Computational Physics (3)
Introduction to the use of computers for solving problems in physics. No programming experience required.

PHZ 5156C Computational Physics I (3)
PR: COP 5016, PHZ 5154, PHZ 4151, or CI
C or Fortran programming applied to science and engineering problems. Data analysis, numerical algorithms, modeling, parallel computation. Subjects: neurobiology, quantum magnetism, chaos, etc. Familiarity with programming in a compiled language assumed.

PHZ 5405 Solid State Physics I (3)
PR: PHY 4605 or PHY 6645
Crystal structure, x-ray and electron diffraction, mechanical and thermal properties of solids, electrical and magnetic properties of metals, band theory of metals, insulators, and semiconductors. First semester of sequence PHZ 5405, PHZ 6426.

PHZ 5430 Introductory Physics of Materials (3)
Phenomenological introduction to the structural, thermal, electrical, magnetic, mechanical, and optical properties of materials.

POR 1121 Beginning Portuguese I (4)
PR: POR 1120 or equivalent
Continued development of basic skills in listening and reading comprehension, speaking and writing of Brazilian Portuguese.

POR 2200 Intermediate Portuguese I (3)
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)
For language students who intend to attain basic proficiency.

POR 3010 Accelerated Portuguese (4)
Accelerated Portuguese course (structure and vocabulary as spoken in Brazil) for speakers of Spanish or other Romance languages. Exposes students to some aspects of Portuguese speaking cultures.

POR 4905 Directed Study (1-5)
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 (1-3)
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)
CASB, HHCP, SCIV, SGES, SMEL, SMSS, SPSS
This course is intended to introduce students to the theory, institutions, and processes of American government and politics. In addition to learning fundamental information about the American political system, this course is designed to help students think critically about American government and politics.

POS 2080 The American Political Tradition (3)
SMEL, SMSS
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)
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)
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)
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)
A study of Florida political culture, political parties and elections, the legislative, executive, and judicial systems, and policy patterns.

## POS 3273 Practical Politics (3)
Coordinated scholarly and practical activity through class lecture and supervised field work in local political parties and election campaigns.

## POS 3283 Judicial Process and Politics (3)
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)
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)
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)
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)
Fundamentals of empirical political inquiry: systematic data collection and quantitative analysis techniques. Laboratory exercises using the computer are required.

## POS 4204 Political Behavior, Public Opinion, and Elections (3)
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 (3)
6ACP, 6ACT, 6ACT
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)
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)
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)
PR: POS 2041.
Analysis of Supreme Court decisions and scholarly commentaries on the constitutional rights of individuals.

## POS 4693 Women and Law I (3)
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 (3)
PR: POS 4693
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)
Specialized study determined by the student's needs and interests.

## POS 4910 Individual Research (1-3)
Investigation of some aspect of political science culminating in the preparation of an original research paper.

## POS 4936 Senior Seminar (3)
An opportunity to work with others in a seminar format, exploring specialized topics.

## POS 4941 Field Work (3-15)
Opportunity for students to obtain practical experience as aides to agencies of government and political parties.
POS 4970 Honor Thesis (3)
Writing of honor thesis under direction of faculty members.

POS 5159 Urban Policy Analysis (3)
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)
Examines various kinds of theory used in political science for understanding political life: normative theory, empirical theory, historicism theory, analytical theory, and critical theory.

POT 3013 Classical Political Theory (3)
Analysis of basic ideas of Plato, Aristotle, Cicero, St. Thomas, and other leading pre-modern political philosophers.

POT 4054 Modern Political Theory (3)
Analysis of basic political ideas of Machiavelli, Hobbes, Locke, Rousseau, Burke, and other modern philosophers.

POT 4204 American Political Thought (3)
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 4064 Contemporary Political Thought (3)
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 (3)
6ACP, 6ACT, 6ACT, ELWP
Critical examination of the connections between politics and literature.

POT 4004C Physiological Psychology (3)
PR: PSY 3213 with a grade of C or better
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 (3)
6ACT, CANP, TGEI
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.

PSB 3444 Drugs and Behavior (3)
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 4004C Physiological Psychology (3)
PR: PSY 3213 with a grade of C or better
Gross neural and physiological components of behavior. Structure and function of the central nervous system and theory of brain functions.

PSY 2012 Introduction to Psychological Science (3)
CASB, SGES, SMEL, SMSS, SPSS
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 3204 Psychological Statistics (3)
PR: PSY 2012
6AMP, 6AMT, 6AMT, CAQR
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 4205 Experimental Design and Analysis (3)
PR: PSY 3213 with grade of C or better
6ACT, TGEI
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 3213 Research Methods in Psychology (4)
PR: PSY 3204 or STA 2023 or STA 2122 or QMB 2100, with a grade of C or better.
6ACT, TGEI
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.

For Current Course Inventory, see https://www.systemacademics.usf.edu/course-inventory/
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<thead>
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<tbody>
<tr>
<td>PSY 4215</td>
<td>Discovering Research in Psychology (3)</td>
<td>This course involves advanced study of approaches to research in psychology and development of various research skills as preparation for conducting independent research.</td>
</tr>
<tr>
<td>PSY 4604</td>
<td>History and Systems of Psychology (3)</td>
<td>The historical roots of modern psychological theories, investigation of the various schools of psychology such as behaviorism, Gestalt psychology, psychoanalysis, and phenomenological psychology.</td>
</tr>
<tr>
<td>PSY 4913</td>
<td>Directed Study (1-3)</td>
<td>The student plans and conducts an individual research project or program of directed readings under the supervision of a faculty member. S/U only.</td>
</tr>
<tr>
<td>PSY 4931</td>
<td>Selected Topics: Seminar (3)</td>
<td>Graduate-type seminar designed to provide the advanced undergraduate student with an in-depth understanding of a selected sub-area within psychology.</td>
</tr>
<tr>
<td>PSY 4932</td>
<td>Honors Seminar (3)</td>
<td>The student, under supervision of a faculty member, will complete a thesis project.</td>
</tr>
<tr>
<td>PSY 4933</td>
<td>Advanced Topics in Applied Behavior Analysis (3)</td>
<td>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.</td>
</tr>
<tr>
<td>PSY 4970</td>
<td>Honors Thesis (1-3)</td>
<td>The student, under supervision of a faculty member, will complete a thesis project.</td>
</tr>
<tr>
<td>PSY 4974</td>
<td>Honors Seminar in Psychology - Second Semester (3)</td>
<td>Honors Seminar in Psychology (Second Semester) provides students who successfully complete the first semester of Honors Seminar in Psychology the opportunity to conduct, analyze, write up and defend their thesis.</td>
</tr>
<tr>
<td>PUP 4002</td>
<td>Public Policy (3)</td>
<td>Examines the formation and implementation of public policy in areas such as the economy, health, etc.</td>
</tr>
<tr>
<td>PUP 4203</td>
<td>Environmental Politics and Policy (3)</td>
<td>Examines the politics of environmental issues, formation and implementation of environmental policy.</td>
</tr>
<tr>
<td>PUP 4323</td>
<td>Women and Politics (3)</td>
<td>An analysis of the impact of gender on power and influence in American society, and women's changing role in the political process.</td>
</tr>
<tr>
<td>PUP 5607</td>
<td>Public Policy and Health Care (3)</td>
<td>The study of health care policy as it relates to the policy process in the American setting.</td>
</tr>
<tr>
<td>PUR 3000</td>
<td>Principles of Public Relations (3)</td>
<td>The underlying theory and professional practice of public relations within corporate and institutional structures and its vital role in society; ethical standards of practice, and relationships of the practice to the public media; public relations problem-solving process.</td>
</tr>
<tr>
<td>PUR 4100</td>
<td>Writing For Public Relations (3)</td>
<td>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.</td>
</tr>
<tr>
<td>PUR 4101</td>
<td>Public Relations Design and Production (3)</td>
<td>Theoretical and practical applications of design for public relations publications. Design software. Study of visual design, page architecture, typography, color and illustrations. Integration of design elements in the design of different types of public relations publications.</td>
</tr>
</tbody>
</table>
COURSE DESCRIPTIONS
(AS OF MARCH 1, 2019)

UNIVERSITY OF SOUTH FLORIDA 2019-20 UNDERGRADUATE CATALOG

PUR 4401 Public Relations: Issues, Practices and Problems (3)
PR: PUR 3000. GCPC, GCPC
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 4412 Persuasion in Digital Media (3)
PR: ADV 3008 with a minimum grade of C, PUR 3000 with a minimum grade of C
Understanding major issues involved in decision-making in mediated communications. Focuses on theories, concepts that underlie good decision making in persuasive messaging and key theoretical concepts of how strategy is used throughout a campaign.

PUR 4700 Public Relations Practicum (1)
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)
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)
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 (3)
PR: MAC 1105, 6AMP, 6AMT, 6AMT, CAQR
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)
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.

QMB 3253 Business Honors Advanced Statistics (3)
6AMT, 6AMT, CAQR
Comprehensive course in statistics for Business Honors students. Includes the application of statistical concepts to business problems.

QMB 3701 Computational Methods in Business (3)
PR: (QMB 3253 with a minimum grade of C or QMB 2100 with a minimum grade of C) and QMB 3200 with a minimum grade of C
Introduces Algorithms and Computational Thinking, Linear Programming, Data Analytics, and Game theory used in business decision making; extensive computer-based methods and analysis employed. Restricted to Business Honors students, not repeatable.

RCS 4033 Overview of Rehab & MH Counseling Professions (3)
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 4051 Addictions Counseling and Coordination of Services (3)
This course examines counseling and service coordination by investigating the collaborative processes that exist between helping professionals, individuals, groups, families, and couples in addictions counseling.

RCS 4452 Assessment, Diagnosis, and Treatment of Addictions (3)
This course introduces and provides an overview of current assessment, diagnosis, and treatment processes aimed at best serving individuals with addictions across the continuum of care.

RCS 4453 Overview of Addictive Disorders (3)
Course is designed to provide students with the history of substance use, current policy & trends, as well as description of commonly used substance. Furthermore, the course will introduce students to common prevention & treatment modalities.

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<tr>
<td>RCS 4503</td>
<td>Addiction Treatment with Special Populations (3)</td>
<td>This course is designed to provide students with the skills necessary to navigate addiction treatment with special populations including LGBTQ, domestic violence, criminal justice diversion, people with disabilities, and women.</td>
</tr>
<tr>
<td>RCS 4504</td>
<td>Therapeutic Communication Skills for Addiction Counseling (3)</td>
<td>This course is designed to provide students with basic therapeutic communication skills which are essential for Addiction Counseling.</td>
</tr>
<tr>
<td>RCS 4931</td>
<td>Selected Topics in Counseling Professions (3)</td>
<td>Provides an overview of counseling professions including current issues, standards of practice, and future trends. Will cover legal and ethical and professional issues.</td>
</tr>
<tr>
<td>RCS 5035</td>
<td>Rehabilitation Counseling: Concepts and Applications (3)</td>
<td>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.</td>
</tr>
<tr>
<td>RCS 5080</td>
<td>Medical Aspects of Disability (3)</td>
<td>PR: RCS 5780 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.</td>
</tr>
<tr>
<td>RCS 5780</td>
<td>Legal, Ethical, Professional Standards and Issues in Counseling (3)</td>
<td>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.</td>
</tr>
<tr>
<td>RCS 5905</td>
<td>Directed Studies (1-4)</td>
<td>Supervised rehabilitation studies under the direction of a faculty member.</td>
</tr>
<tr>
<td>REA 1305</td>
<td>Reading Lab (1-3)</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)</td>
<td>To explore the most recent advances in learning theory systems and then learn to apply that knowledge to understanding individual learning preferences, analyzing task demands, and intentionally selecting effective strategies for each learning challenge.</td>
</tr>
<tr>
<td>REA 2105</td>
<td>Critical Reading and Writing (3)</td>
<td>6ACT, 6ACT 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)</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>RED 4310</td>
<td>Reading and Learning to Read (3)</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 4312</td>
<td>Emergent Literacy Strategies and Assessment (3)</td>
<td>The purpose of this course is to create an understanding of developmentally appropriate, research-based theories and practices that support young children's emergent literacy and language learning.</td>
</tr>
</tbody>
</table>
RED 4335 Teaching Reading in Secondary English Curriculum (3)
Analysis of the reading process; introduction to diagnosis of reading abilities; reading and study skill strategies to increase student achievement in reading.

RED 4511 Linking Literacy Assessment to Instruction (3)
PR: RED 4310.
This course will prepare pre-service teachers to use multiple assessment measures to assess and diagnose students' strengths and needs in literacy learning. Based on individual student profiles, teachers will design instruction to enhance literacy development.

RED 4724 Intermediate Literacy Strategies and Assessment I (3)
PR: RED 4312.
The purpose of this course is to create an understanding of developmentally appropriate, research-based theories and practices that support children's literacy learning in the intermediate grade levels.

RED 4943 Practicum in Supporting Students with Reading Difficulties (3)
CST, TGEH
Students will work one-on-one with a child experiencing difficulties in reading and writing. Students will conduct assessments, plan and deliver lessons that draw on research-based instructional practices, and engage in critical self-reflection.

REE 3043 Real Estate Decision Making (3)
PR: FIN 3403 with a minimum grade of C
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.

REE 4940C Real Estate Internship (3)
PR: FIN 3403 with a minimum grade of C, REE 3043 with a minimum grade of C
This course has both an academic component (that focuses on professional development skills) and an on-site experiential learning experience with an approved real estate company, greatly increasing students' chances of finding meaningful employment.

REL 2166 Introduction to Religion and Ecology (3)
CAHU, HHCP
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.

REL 2205 Introduction to the New Testament (3)
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.

REL 2306 Contemporary World Religions (3)
GCPC, GCPC
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.

REL 3040 Introduction to Religious Studies (3)
GCPC, GCPC
This course introduces students to the academic study of religion. Religious thought and behavior are examined from a variety of methodological perspectives. Restricted to majors and minors. Required for the major and the minor in Religious Studies.

REL 3043 Introduction to Major Religious Texts (3)
GCPC, GCPC
The course provides an introduction to the study of some of the foundational texts of selected religious traditions by focusing on reading and interpretative strategies in order to understand the central beliefs and practices presented in these texts.
COURSE DESCRIPTIONS
(AS OF MARCH 1, 2019)

UNIVERSITY OF SOUTH FLORIDA 2019-20 UNDERGRADUATE CATALOG

REL 3101 Religion and Popular Culture (3)
An exploration and analysis of the relationship between religion and popular culture, which will include inquiry into the definition and meaning of both religion and popular culture, the impact of secularization on traditional religious systems, and the widely diverse expressions of religion in contemporary popular culture.

REL 3111 The Religious Quest in Contemporary Films (3)
6ACT, 6ACT, CAHU
This course uses contemporary films such as Gandhi, Malcolm X, The Long Walk Home, The Chosen, and Grand Canyon to explore the personal and social aspects of religion in modern secular societies, pinpointing issues of racism, sexism, liberation, etc.

REL 3114 Comedy, Tragedy, and Religion (3)
6ACT, 6ACT
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 (3)
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 (3)
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)
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 (3)
CAGC, HHCP
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 â€“ the present.

REL 3132 Witchcraft and Paganism in America (3)
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)
Introductory scholarly survey of religion in its complex relationship to culture and society, including definitions and theories of religion, research methods, becoming religious, social organization, and interconnections with other social institutions. Open to non majors.

REL 3145 In Search of the Goddess (3)
This course explores Goddess religion/sacred Feminine, from prehistory, to the pagan Near East and Mediterranean, Western monotheistic religions, pluralistic religions of the East, and revivals of Goddess spirituality in contemporary Europe/N. America.

REL 3146 Women and Religion (3)
6ACT, 6ACT
Analysis of the status and roles of women as compared to men in the Judeo-Christian tradition. Contemporary issues of feminist theology, and the controversies surrounding them.

REL 3170 Religion, Ethics and Society Through Film (3)
6ACT, 6ACT
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 (3)
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 (3)
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 (3)
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.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>REL 3308</td>
<td>World Religions (3)</td>
<td>6ACT, 6ACT, GCPC, GCPC</td>
<td>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.</td>
</tr>
<tr>
<td>REL 3318</td>
<td>Introduction to Chinese Religion (3)</td>
<td></td>
<td>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.</td>
</tr>
<tr>
<td>REL 3330</td>
<td>Religions of South Asia (3)</td>
<td></td>
<td>All religions of the world came to India and all became Indian. What is this &quot;Indianness&quot; 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.</td>
</tr>
<tr>
<td>REL 3335</td>
<td>Gods and Goddesses of India (3)</td>
<td>GCPC</td>
<td>This course explores the ways Hindus see, speak about, and encounter the Divine through an examination of the multitude of stories about the gods and goddesses and their various physical manifestations in the sacred geography of India.</td>
</tr>
<tr>
<td>REL 3340</td>
<td>Buddhism Truths and Paths (3)</td>
<td></td>
<td>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.</td>
</tr>
<tr>
<td>REL 3363</td>
<td>Introduction to Islam (3)</td>
<td></td>
<td>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).</td>
</tr>
<tr>
<td>REL 3367</td>
<td>Islam in the Modern World (3)</td>
<td>6ACT, 6ACT</td>
<td>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.</td>
</tr>
<tr>
<td>REL 3375</td>
<td>Issues in Caribbean Religions (3)</td>
<td>CPST, GCPC</td>
<td>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.</td>
</tr>
<tr>
<td>REL 3380</td>
<td>Native American Religions (3)</td>
<td></td>
<td>Introduction to and survey of Native American Religions. A variety of multiplicity of perspectives, including anthropological, historical, social psychological, sociological, and philosophical.</td>
</tr>
<tr>
<td>REL 3420</td>
<td>Contemporary Religious Thought (3)</td>
<td></td>
<td>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.</td>
</tr>
<tr>
<td>REL 3444</td>
<td>Womanist Vision in Religion (3)</td>
<td></td>
<td>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.</td>
</tr>
<tr>
<td>REL 3465</td>
<td>Religion and the Meaning of Life (3)</td>
<td>6ACT, 6ACT</td>
<td>What is the meaning of life? An exploration of answers to this question in Eastern and Western religions, and in humanistic philosophies of life.</td>
</tr>
<tr>
<td>REL 3500</td>
<td>History of Christianity (3)</td>
<td>6ACP, 6ACT, 6ACT, GCPC, GCPC</td>
<td>Historical development of Western Christianity, its ideas and institutions, from the first century to the rise of religious modernism in the 19th century.</td>
</tr>
<tr>
<td>REL 3505</td>
<td>Introduction to Christianity (3)</td>
<td></td>
<td>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.</td>
</tr>
<tr>
<td>REL 3561</td>
<td>Roman Catholicism (3)</td>
<td>6ACT, 6ACT</td>
<td>An examination of the history, doctrine, and ethics of the Roman Catholic Church.</td>
</tr>
<tr>
<td>REL 3602</td>
<td>Classics of Judaism (3)</td>
<td>PR: One course in Religious Studies. 6ACT, 6ACT</td>
<td>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.</td>
</tr>
<tr>
<td>REL 3607</td>
<td>Introduction to Judaism (3)</td>
<td>6ACT, 6ACT, GCPC, GCPC</td>
<td>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.</td>
</tr>
<tr>
<td>Course Code</td>
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</tr>
<tr>
<td>REL 3611</td>
<td>History of Judaism (3)</td>
<td>3</td>
<td>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.</td>
</tr>
<tr>
<td>REL 3613</td>
<td>Modern Judaism (3)</td>
<td>3</td>
<td>A study of modern Jewish life and thought in the West, including the study of beliefs, practices, institutions, major thinkers, and intellectual trends.</td>
</tr>
<tr>
<td>REL 3900</td>
<td>Directed Readings (1-4)</td>
<td>1-4</td>
<td>Individual guidance in concentrated reading on a selected topic.</td>
</tr>
<tr>
<td>REL 3936</td>
<td>Selected Topics (1-3)</td>
<td>1-3</td>
<td>Course contents depend on students’ needs.</td>
</tr>
<tr>
<td>REL 4108</td>
<td>Religion and Food (3)</td>
<td>GCPC, GCPC</td>
<td>Course applies categories in the academic study of religion (symbol, ritual, the divine, the sacred/profane, ethics, etc.) to food and religion. Explores how religion relates to food—in its production, distribution and consumption dimensions.</td>
</tr>
<tr>
<td>REL 4113</td>
<td>The Hero and Religion (3)</td>
<td>6ACT, 6ACT</td>
<td>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.</td>
</tr>
<tr>
<td>REL 4133</td>
<td>Mormonism in America (3)</td>
<td>3</td>
<td>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.</td>
</tr>
<tr>
<td>REL 4171</td>
<td>Contemporary Christian Ethics (3)</td>
<td>6ACT, 6ACT, SMLE</td>
<td>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.</td>
</tr>
<tr>
<td>REL 4177</td>
<td>Comparative Religious Ethics (3)</td>
<td>6ACT, 6ACT</td>
<td>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.</td>
</tr>
<tr>
<td>REL 4188</td>
<td>Religion and Ecology Seminar (3)</td>
<td>3</td>
<td>Course applies categories in the academic study of religion (symbol, myth, ethics, community, ultimate power, and so on) to ecology. Considers how religion and ecology relate and have related historically.</td>
</tr>
<tr>
<td>REL 4193</td>
<td>Comparative Mysticism (3)</td>
<td>3</td>
<td>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.</td>
</tr>
<tr>
<td>REL 4213</td>
<td>Early Jewish Literature (3)</td>
<td>6ACT, 6ACT, CPST</td>
<td>This course undertakes close readings of a wide range of early Jewish texts to better understand the role of scripture in the ancient world and to gain insight into the cultural and religious world from which rabbinic Judaism and Christianity emerged.</td>
</tr>
<tr>
<td>REL 4215</td>
<td>Ancient Israel and the Development of the Hebrew Bible (3)</td>
<td>6ACT, 6ACT</td>
<td>An exploration of the formation and composition of the Hebrew Bible in light of the religious, social, political, and historical developments in antiquity.</td>
</tr>
<tr>
<td>REL 4216</td>
<td>Who Wrote the Bible (Genesis-Kings) (3)</td>
<td>6ACT, 6ACT</td>
<td>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.</td>
</tr>
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<tr>
<td>REL 4250</td>
<td>Jesus’ Life and Teachings (3)</td>
<td>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.</td>
<td></td>
</tr>
<tr>
<td>REL 4291</td>
<td>Women and the Bible (3)</td>
<td>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 &quot;women’s voices,&quot; however muted, within the biblical text.</td>
<td></td>
</tr>
<tr>
<td>REL 4333</td>
<td>Hindu Texts and Contexts (3)</td>
<td>PR: REL 3300 or similar course focusing on Hinduism. 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 &quot;Hinduism&quot;.</td>
<td></td>
</tr>
<tr>
<td>REL 4499</td>
<td>Classics of Christian Thought (3)</td>
<td>PR: REL 3300 or similar course focusing on Hinduism. 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 &quot;Hinduism&quot;.</td>
<td></td>
</tr>
<tr>
<td>REL 4566</td>
<td>Old Order Anabaptists (3)</td>
<td>Explores and compares the sectarian character of Old Order Anabaptists, focusing on Hutterites, Amish, Mennonites, and Brethren.</td>
<td></td>
</tr>
<tr>
<td>REL 4910</td>
<td>Undergraduate Research (1-4)</td>
<td>Individual investigations with faculty supervision.</td>
<td></td>
</tr>
<tr>
<td>REL 4911</td>
<td>Undergraduate Research (1-4)</td>
<td>Individual investigations with faculty supervision.</td>
<td></td>
</tr>
<tr>
<td>REL 4931</td>
<td>Seminar in Religion (3)</td>
<td>PR: REL 3003 and REL 3014. 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.</td>
<td></td>
</tr>
<tr>
<td>REL 4936</td>
<td>Selected Topics (1-3)</td>
<td>Individual investigations with faculty supervision.</td>
<td></td>
</tr>
</tbody>
</table>
### COURSE DESCRIPTIONS

**UNIVERSITY OF SOUTH FLORIDA 2019-20 UNDERGRADUATE CATALOG**

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<tr>
<td>RTV 4500</td>
<td>Telecommunications Programming and Management</td>
<td>3</td>
<td>RTV 3001</td>
<td>Program and management concepts, resources, costs, selection, and scheduling. Analysis of programming and management in terms of structures, appeals and strengths.</td>
</tr>
<tr>
<td>RTV 4542</td>
<td>TV Production and Direction</td>
<td>3</td>
<td>RTV 3001 and RTV 3301</td>
<td>A basic course in the techniques of producing and directing TV programs.</td>
</tr>
<tr>
<td>RTV 4942</td>
<td>TV Practicum</td>
<td>1</td>
<td>RTV 4542</td>
<td>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.</td>
</tr>
<tr>
<td>RUS 1120</td>
<td>Beginning Russian I</td>
<td>4</td>
<td></td>
<td>The first course in the study of elementary Russian. Emphasis on the development of basic skills in comprehension, speaking and reading.</td>
</tr>
<tr>
<td>RUS 1121</td>
<td>Beginning Russian II</td>
<td>4</td>
<td>RUS 1120</td>
<td>The second course in the study of elementary Russian. Emphasis on the development of basic skills in comprehension, speaking and reading.</td>
</tr>
<tr>
<td>RUS 2220</td>
<td>Intermediate Russian I</td>
<td>4</td>
<td>First year Russian or equivalent.</td>
<td>Review and development of basic skills in conversation, composition, and reading.</td>
</tr>
<tr>
<td>RUS 2221</td>
<td>Intermediate Russian II</td>
<td>4</td>
<td>RUS 2220 or equivalent.</td>
<td>Review and development of basic skills in conversation, composition, and reading.</td>
</tr>
<tr>
<td>RUS 2270</td>
<td>Overseas Study</td>
<td>1-6</td>
<td></td>
<td>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.</td>
</tr>
<tr>
<td>RUS 3240</td>
<td>Russian Language &amp; Culture through Film</td>
<td>3</td>
<td>RUS 2221</td>
<td>Development of basic conversational skills.</td>
</tr>
<tr>
<td>RUS 3470</td>
<td>Overseas Study</td>
<td>1-6</td>
<td>Two years Russian</td>
<td>Intensive Russian at Moscow Linguistic University with excursions in Moscow and Russia. Students from other institutions eligible.</td>
</tr>
<tr>
<td>RUS 3500</td>
<td>Russian Civilization</td>
<td>3</td>
<td>6ACT, 6ACT</td>
<td>A survey of the cultural history of Russia.</td>
</tr>
<tr>
<td>RUS 4241</td>
<td>Russian Language &amp; Culture through Film II</td>
<td>3</td>
<td>RUS 3240 or equivalent.</td>
<td>Development of conversational skills.</td>
</tr>
<tr>
<td>RUS 4900</td>
<td>Selected Topics</td>
<td>1-3</td>
<td></td>
<td>Study of an author, movement or theme.</td>
</tr>
<tr>
<td>RUS 4905</td>
<td>Directed Study</td>
<td>1-3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>RUT 3110</td>
<td>Nineteenth Century Russian Literature in English</td>
<td>3</td>
<td>6ACT, 6ACT, WRIN</td>
<td>Masterpieces of 19th Century Russian Literature in English. Works by Pushkin, Gogol, Lermontov, Turgenev, Dostoievsky, Tolstoy, Chekhov.</td>
</tr>
<tr>
<td>RUT 3111</td>
<td>Twentieth-Century Russian Literature in English</td>
<td>3</td>
<td>6ACT, 6ACT, CPST, WRIN</td>
<td>Survey of the major authors of 20th Century Russian literature in English. Major works of Babel, Bulgakov, Olesha, Pasternak, Solzhenitsyn, and Zamyatin.</td>
</tr>
<tr>
<td>SCE 3941</td>
<td>Practicum I: Middle School Science Education</td>
<td>1-3</td>
<td></td>
<td>1. The candidate will spend six hours a week in an assigned school, becoming acquainted with the middle grades classroom, and providing supervised one-on-one, small group and whole group instruction and will attend university seminars.</td>
</tr>
<tr>
<td>SCE 3942</td>
<td>Practicum II: Middle School Science Education</td>
<td>1-3</td>
<td></td>
<td>Candidates will spend nine hours a week in an assigned school, in a grade level or subject area other than the one completed in Practicum I, providing supervised one-on-one, small group, and whole group instruction, and will attend university seminars.</td>
</tr>
<tr>
<td>SCE 4305</td>
<td>Communication Skills in the Science Classroom</td>
<td>3</td>
<td></td>
<td>Reading and communication skills important in understanding scientific and science education literature and communicating findings to others.</td>
</tr>
<tr>
<td>SCE 4310</td>
<td>Teaching Elementary School Science</td>
<td>3</td>
<td></td>
<td>Techniques and materials for teaching science in the elementary school.</td>
</tr>
<tr>
<td>SCE 4320</td>
<td>Teaching Methods in Middle Grade Science I</td>
<td>3</td>
<td>EDM 3403, SCE 3941 and SCE 3942</td>
<td>The purpose of this course for education majors is to develop pedagogical content knowledge as it pertains to the teaching and learning of science, concentrating on skills and strategies necessary to teach science at the middle school level.</td>
</tr>
</tbody>
</table>

For Current Course Inventory, see [https://www.systemacademics.usf.edu/course-inventory/](https://www.systemacademics.usf.edu/course-inventory/)
**COURSE DESCRIPTIONS**

*(AS OF MARCH 1, 2019)*

**UNIVERSITY OF SOUTH FLORIDA 2019-20 UNDERGRADUATE CATALOG**

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<tbody>
<tr>
<td>SCE 4330</td>
<td>Methods of Secondary Science Education (3)</td>
<td></td>
<td></td>
<td>The purpose of this course for science education majors is to develop pedagogical content knowledge as it pertains to the teaching and learning of science in grades 6-12.</td>
</tr>
<tr>
<td>SCE 4863</td>
<td>Science, Technology, Society Interaction (3)</td>
<td>6ACT, 6ACT, GCPC, GCPC</td>
<td></td>
<td>Achieve an historical and philosophical understanding of (1) the nature of the scientific enterprise: interaction of science, technology, and society (STS), (2) how to teach STS including the use of computers and related technologies, and (3) intricacies of sample STS topics.</td>
</tr>
<tr>
<td>SCE 4936</td>
<td>Senior Seminar in Science Education (3)</td>
<td></td>
<td>CR: SCE 4940. CPST</td>
<td>Synthesis of teacher candidate's courses in complete college program.</td>
</tr>
<tr>
<td>SCE 4940</td>
<td>Internship: Science Education (1-12)</td>
<td></td>
<td>CR: SCE 4936.</td>
<td>One full semester of internship in a public or private school.</td>
</tr>
<tr>
<td>SCE 4941</td>
<td>Internship I: Middle School Science Education (1-12)</td>
<td></td>
<td></td>
<td>Candidates will spend each day of the semester in an assigned school implementing acquired knowledge from Practicum I and II, with increased responsibility for planning instruction and assessing student learning, and will attend internship seminars.</td>
</tr>
<tr>
<td>SCE 4942</td>
<td>Internship II: Middle School Science Education (1-12)</td>
<td></td>
<td></td>
<td>Internship II is a continuation of Internship I. Candidates will spend each day of the semester co-teaching in the same school, with responsibility for planning instruction and assessing impact on student learning, and will attend internship seminars.</td>
</tr>
<tr>
<td>SCE 4945</td>
<td>Practicum in Secondary Science Education (3)</td>
<td></td>
<td>CR: SCE 4320.</td>
<td>This practicum provides students majoring in biology, chemistry or physics education with structured field experiences in science classrooms at the secondary school level. Restricted to majors and non-repeatable for credit.</td>
</tr>
<tr>
<td>SCE 5325</td>
<td>Methods of Middle Grades Science Education (3)</td>
<td></td>
<td></td>
<td>Prepare 5-9 sci teachers to teach sci skills, content; interrelationship, applications of sci as a human endeavor; nature of sci; instructional methods; nature scientific inquiry; development of sci process skills; integration of subj areas; &amp; assessment.</td>
</tr>
<tr>
<td>SCE 5337</td>
<td>Methods of Secondary Science Education (3)</td>
<td></td>
<td></td>
<td>Course concentrates on goals, subject matter teaching strategies for high school curricula; assessment and using data to improve student achievement; and development pedagogical content knowledge as it pertains to the teaching and learning of science.</td>
</tr>
<tr>
<td>SCE 5564</td>
<td>Reading and Communication in Science Education (3)</td>
<td></td>
<td></td>
<td>This course prepares secondary science teachers to teach literacy practices in science. It includes methods for selecting appropriate reading and language approaches. Communication in science and functional aspects of scientific literacy are examined.</td>
</tr>
<tr>
<td>SDS 3341</td>
<td>Career Development for Student Athletes (2-3)</td>
<td></td>
<td></td>
<td>This course will prepare student athletes for transition to life after college. Students will identify career options based on interests, values and skills, research occupations, make effective decisions &amp; learn job search techniques.</td>
</tr>
<tr>
<td>SDS 4942</td>
<td>Practicum in Career Development for Student-Athletes (0-2)</td>
<td></td>
<td></td>
<td>This course was designed to ensure undergraduates have practical experience engaging in a mentor relationship with professionals in our community in order to lay a foundation toward a sustainable support system for post-collegiate success.</td>
</tr>
<tr>
<td>SLS 1101</td>
<td>The University Experience (1-3)</td>
<td></td>
<td></td>
<td>An extended introduction to USF. Topics include purposes of higher education, structure and function of USF, career planning, selecting a major, study skills, managing time, academic advising, computer resources, and decision-making.</td>
</tr>
<tr>
<td>SLS 2401</td>
<td>Explore Career Pathways (1-3)</td>
<td></td>
<td></td>
<td>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.</td>
</tr>
<tr>
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<td>Description</td>
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<tr>
<td>SLS 2901</td>
<td>Academic Foundations Seminar (1-3)</td>
<td>1-3</td>
<td></td>
<td>This course offers an introduction to students' first years at USF that is designed to prepare them for a successful college experience. The course provides the necessary knowledge and experiences for students to be successful personally and academically.</td>
</tr>
<tr>
<td>SLS 3113</td>
<td>Critical Thought for Academic Transitions (1-3)</td>
<td>1-3</td>
<td></td>
<td>This course is designed to facilitate transfer students' academic integration into a research university. Students will gain an understanding of the academic standards and expectations at a research university and discover how to be successful.</td>
</tr>
<tr>
<td>SLS 3275</td>
<td>Student Leadership on Campus (0-3)</td>
<td>0-3</td>
<td></td>
<td>This course promotes leadership and university knowledge among student leadership candidates. Students will learn about communication, customer service, team dynamics, student transition issues, academic support and issues of diversity, among many other topics.</td>
</tr>
<tr>
<td>SLS 3308</td>
<td>Job Search (1-3)</td>
<td>1-3</td>
<td>GCPC, GCPC</td>
<td>Students will prepare for a smooth transition to the ever-evolving workplace by becoming aware of current job seeking trends and skills that will promote success in the job search process.</td>
</tr>
<tr>
<td>SLS 3407</td>
<td>Strategies for Veteran Success (3)</td>
<td>3</td>
<td>PR: PSY 2012, PSY 3017, PSY 3213</td>
<td>This course facilitates the transition from military service to college with the goal of promoting student Veteran retention, graduation and job placement. It seeks to assist military veteran students in their integration into life outside the military.</td>
</tr>
<tr>
<td>SOP 4330</td>
<td>Social Psychology of HIV/AIDS (3)</td>
<td>3</td>
<td>PR: PSY 3213</td>
<td>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.</td>
</tr>
<tr>
<td>SOP 4514</td>
<td>The Holocaust, Social Prejudice, and Morality (3)</td>
<td>3</td>
<td>PR: PSY 2012</td>
<td>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.</td>
</tr>
<tr>
<td>SOP 4702</td>
<td>Psychology of Gender (3)</td>
<td>3</td>
<td>PR: PSY 2012 and PSY 3204, with a minimum grade of C-</td>
<td>This course is designed to introduce students to the psychological study of gender, from developmental, biological, social, and cultural perspectives.</td>
</tr>
<tr>
<td>SOP 4714C</td>
<td>Environmental Psychology (3)</td>
<td>3</td>
<td>PR: PSY 3213 with a grade of C or better</td>
<td>Explores the influences of environment on behavior. Topics considered include crowding, privacy, territorial behavior, environmental design, and pollution effects. Designed for both psychology majors and non-majors.</td>
</tr>
<tr>
<td>SOW 3101</td>
<td>Human Behavior and the Social Environment I (3)</td>
<td>3</td>
<td>GCPC, GCPC</td>
<td>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.</td>
</tr>
</tbody>
</table>
SOW 3210 The American Social Welfare System (3)
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)
PR: SOW 3101, SOW 4343, SOW 4522
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)
PR: SOW 3101, SOW 3401, SOW 4341, SOW 4522, SOW 3102, SOW 4343
CR: SOW 4510, SOW 4510L
An advanced policy course taking an analytical approach to contemporary social welfare policy issues and current social welfare programs.

SOW 4315 Social Work Case Management with Special Populations (3)
PR: SOW 4341
This course is designed to develop student knowledge, skills, and values for providing effective case management services in a variety of settings. Students become aware of evidence-based case management practices with at risk populations.

SOW 4341 Multi-Methods of Social Work Practice I: Micro-System Intervention (3)
CPR: SOW 3101; SOW 4522
First practice course emphasizing development of skills and interventive methods with individuals, families and small groups. Course includes both didactic and experiential learning components.

SOW 4343 Multi-Methods of Social Work Practice II: Macro-System Intervention (3)
PR: SOW 3101, SOW 4522, SOW 4341
CR: SOW 3401, and SOW 3102
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 4414 Social Work Data Management (2)
PR: SOW 3401
The purpose of this course is to introduce students to quantitative tools used to describe/interpret data used in social work practice, research and policy formation. Students learn to plan and conduct analyses guided by understanding of social work.

SOW 4510 Integrative Seminar and Field Placement (9)
PR: SOW 3210, SOW 3301, SOW 3101, SOW 3102, SOW 3401, SOW 4341, SOW 4343, SOW 4522
TGEH
The course provides a professionally supervised field practicum (placement) in a community-based agency, which is accompanied by a field seminar to provide a structured environment in which to integrate academic course work with the field placement.

SOW 4522 Multicultural America in a Global Society (3)
GCPC, GCPC
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 be called upon to interface with in their different roles.

SOW 4602 Social Work Practice in Mental Health and Health Care (3)
PR: SOW 4343
The purpose of this course is to introduce students to social work practice in mental health and health care settings. Students will be introduced to a variety of mental health and health assessments and interventions.

SOW 4900 Directed Readings (1-9)
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)
PR: Completion of four social work courses including SOW 3401
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)
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 Communication Sciences and Disorders (3)
This course involves an introduction to the field of study of Communication Sciences and Disorders. Access will be provided to the most current theories, research and practices through rich examples, videos, expert speakers and anecdotes.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Prerequisites/Co-requisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPA 3004</td>
<td>Introduction to Language Development and Disorders (3)</td>
<td>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.</td>
</tr>
<tr>
<td>SPA 3011</td>
<td>Introduction to Speech Science (3)</td>
<td>PR: 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.</td>
</tr>
<tr>
<td>SPA 3030</td>
<td>Introduction to Hearing Science (3)</td>
<td>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.</td>
</tr>
<tr>
<td>SPA 3101</td>
<td>Anatomy and Physiology of the Speech and Hearing Mechanism (3)</td>
<td>An overview of hearing science and speech science relating to the educational environment. This course orients 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.</td>
</tr>
<tr>
<td>SPA 3112</td>
<td>Applied Phonetics in Communication Disorders (3)</td>
<td>Introduction to phonetic analysis of normal and disordered speech, including training in phonetic transcription of normal and disordered speech using the International Phonetic Alphabet.</td>
</tr>
<tr>
<td>SPA 3261</td>
<td>Language Science for Comm. Sciences &amp; Disorders (3)</td>
<td>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.</td>
</tr>
<tr>
<td>SPA 3300</td>
<td>Introduction to Disorders of Hearing (3)</td>
<td>PR: SPA 3030. The etiology, pathology, and management of disorders of the outer ear, middle ear, inner ear, retrocochlear, and central auditory systems.</td>
</tr>
<tr>
<td>SPA 3470</td>
<td>Culture and Diversity in CSD (3)</td>
<td>An in-depth exploration of diversity issues within CSD. Consideration of groups and cultures of various groups highly represented in the US. Application of concepts to scenarios which affect ASL interpreters, speech pathologists, and audiologists.</td>
</tr>
<tr>
<td>SPA 3653</td>
<td>Overview of Language Learning in Deaf Children (3)</td>
<td>CR: SPA 3653L. 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.</td>
</tr>
<tr>
<td>SPA 3653L</td>
<td>Overview of Language Learning in Deaf Children Lab (1)</td>
<td></td>
</tr>
<tr>
<td>SPA 3673</td>
<td>Introduction to Auditory Functions (3)</td>
<td>An in-depth exploration 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.</td>
</tr>
<tr>
<td>SPA 4050</td>
<td>Introduction to the Clinical Process (3)</td>
<td>PR: SPA 3004 and SPA 3310. 6ACM, CPST, SMCC. 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.</td>
</tr>
<tr>
<td>SPA 4104</td>
<td>Neuroanatomy for Speech, Language and Hearing (3)</td>
<td>PR: SPA 3101 (highly recommended). Students will learn neuroanatomical &amp; neurophysiological principles, structures, and functions that subserve speech, hearing, language and cognition. A case-based approach will enable understanding of behavioral manifestations of neuropathologies.</td>
</tr>
<tr>
<td>SPA 4201</td>
<td>Phonological Development and Disorders (3)</td>
<td>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.</td>
</tr>
</tbody>
</table>
SPA 4210 Vocal Disorders (3)
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)
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)
PR: SPA 3101.
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.

SPA 4257 Adult Communication Disorders (3)
PR: SPA 4104
This course provides an overview of communication disorders seen in adult populations & prepares students for clinical encounters with this population. The disorders include those involving language, cognitive-communication, & speech & motor control.

SPA 4271 Introduction to Audiologic Rehabilitation (3)
PR: SPA 3310
SMCD
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)
PR: SPA 3004, SPA 3310.
SMLE
This course introduces the student to fundamental skills and knowledge needed prior to beginning clinical work in speech-language pathology/audiology. Professional/ethical issues, principles of assessment/intervention, & interviewing skills are included.

SPA 4555 Counseling of Communicatively Handicapped and Family (3)
PR: SPA 3011 and SPA 3310.
Discussion of role of counseling in the treatment of communication disorders. Based on exploration of theoretical constructs, this course demonstrates application of therapeutic methodologies to reduction of communication handicaps.

SPA 4632 Nature and Needs of the Deaf and Hard of Hearing (3)
PR: ASL 3514 with a minimum grade of C-
This course presents an overview of the diverse identities, communication choices, audiological realities, and educational options common to the American Deaf and Hard-of-hearing communities.

SPA 4901 Research Methods in Communication Sciences and Disorders (3)
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)
Indep. Study will allow UG students to work independently under the supervision of Faculty members in the pursuit of content gained independently. The course is repeatable for a total of 10 credits. Majors only.

SPA 4910 Directed Research (1-10)
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 (1-3)
Intensive study of topics in Speech-Language Pathology, Audiology, and/or Aural Rehabilitation conducted under the supervision of a faculty member.

SPA 4962 Undergraduate Comprehensive Examination (1)
PR: INT 4206, INT 3004
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)
The student, under the supervision of a Faculty member will formalize, conduct, analyze and report in writing a research project in the Department of Communication Sciences and Disorders. The course is repeatable for a total of 10 credits. Majors only.
<table>
<thead>
<tr>
<th>COURSE DESCRIPTIONS</th>
</tr>
</thead>
<tbody>
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<td>UNIVERSITY OF SOUTH FLORIDA 2019-20 UNDERGRADUATE CATALOG</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>PREREQUISITES</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPA 5132</td>
<td>Audiology Instrumentation (3)</td>
<td>PR: SPA 5120, SPA 6930, SPA 5506.</td>
<td>Instruction in the use of clinical and laboratory instrumentation. Emphasis placed on electronic circuitry, signal generation, filtering, and calibration. Hands-on experience with equipment typically used in clinical auditory research will be provided.</td>
</tr>
<tr>
<td>SPA 5133C</td>
<td>Speech Science Instrumentation (3)</td>
<td>PR: SPA 3011 or equivalent.</td>
<td>Underlying principles and laboratory exercises in the use of audio recording, acoustic analysis, and clinical instrumentation.</td>
</tr>
<tr>
<td>SPA 5153</td>
<td>Quantitative Problem Solving in Speech Pathology and Audiology (3)</td>
<td></td>
<td>Covers fundamental mathematical and statistical concepts underlying the field of Communication Sciences and Disorders and application of these concepts to practical and clinical problems. Not restricted to majors or repeatable for credit.</td>
</tr>
<tr>
<td>SPA 5204</td>
<td>Advanced Clinical Phonology (3)</td>
<td></td>
<td>The principles of generative phonology will be applied to the assessment and treatment of phonological disorders. Emphasis is placed on making a childâ€™s phonology more functional for communication purposes.</td>
</tr>
<tr>
<td>SPA 5303</td>
<td>Auditory Anatomy and Physiology (3)</td>
<td></td>
<td>Provide a comprehensive understanding of the physiological acoustics of the auditory periphery, neuroanatomy and electrophysiology of the central auditory system, and psychoacoustic principles as they relate to clinical audiologic measurement paradigms.</td>
</tr>
<tr>
<td>SPA 5403</td>
<td>Language-Learning in the School-Age Years (3)</td>
<td></td>
<td>Metalinguistic and metacognitive development are linked to the interactional demands of classroom and clinical discourse; observational tools are applied to evaluation and intervention planning.</td>
</tr>
<tr>
<td>SPA 5506</td>
<td>Speech-Language Pathology and Audiology Practicum (1-8)</td>
<td></td>
<td>Participation in speech-language pathology and audiology practicum in the University Communication Disorders Center and selected field settings.</td>
</tr>
<tr>
<td>SPA 5552</td>
<td>Diagnostic Principles and Practices (3)</td>
<td></td>
<td>The administration, evaluation, and reporting of diagnostic tests and procedures used in assessment of speech and language disorders.</td>
</tr>
<tr>
<td>SPB 4712</td>
<td>Sport Marketing (3)</td>
<td>PR: MAR 3023 CR: MAR 3823</td>
<td>This course provides undergraduate students with an overview of the rapidly developing sport and entertainment industry from a strategic marketing perspective.</td>
</tr>
<tr>
<td>SPB 4717</td>
<td>Social Media in Sport Marketing (3)</td>
<td>PR: MAR 3023 CR: MAR 3823</td>
<td>Examines the role of social media in sport marketing to build and enhance relationships with customers, fans, employees and businesses. Explores opportunities and challenges to leverage social media.</td>
</tr>
<tr>
<td>SPC 2608</td>
<td>Public Speaking (3)</td>
<td>6ACT, CAHU, SMEL, TGEI</td>
<td>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.</td>
</tr>
<tr>
<td>SPC 3212</td>
<td>Communication Theory (3)</td>
<td></td>
<td>The study of source, message, and receiver variables in human communication; communication settings; descriptive and predictive models of communication; communication as a process.</td>
</tr>
<tr>
<td>SPC 3230</td>
<td>Rhetorical Theory (3)</td>
<td></td>
<td>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.</td>
</tr>
<tr>
<td>SPC 3301</td>
<td>Interpersonal Communication (3)</td>
<td>CASB</td>
<td>A study of interpersonal communication in informally structured settings with emphasis on the understanding, description, and analysis of human communication.</td>
</tr>
</tbody>
</table>
SPC 3425 Group Communication (3)
6ACT, 6ACT, SMCD
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)
Study of principles of argumentation as applied in oral discourse, analysis of evidence and modes of reasoning. Practice in debate preparation and delivery.

SPC 3544 Persuasion and Media (3)
This course develops critical awareness of the persuasive messages encountered in an information-rich society. Introduces key concepts and theories of persuasion, with emphasis on the role of socio-technical systems and mediated communication.

SPC 3602 Advanced Public Speaking (3)
PR: SPC 2608 with grade of C- or above
Study and application of communication strategies in speaking extemporaneously and from manuscript. The course includes study of selected public addresses as aids to increased understanding of speaking skills.

SPC 3653 Popular Forms of Public Communication (3)
Analysis of public communication with emphasis on various presentational forms.

SPC 3680 Rhetorical Analysis (3)
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 (3)
CAGC, HHCP
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 (3)
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 (3)
PR: COM 2000 with C or above
6ACT, 6ACT
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)
Explores talk as practical action through observation, transcription, and analysis.

SPC 4310 Relationships on Film (3)
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)
Examines theories of aging through intergenerational and interpersonal communication, explores aging in the media, and considers contexts of communication in older adulthood.

SPC 4431 Family Communication (3)
Examines the processes and functions of communication in family relationships. Examination of scholarly and popular literature on family structure, family systems, family development, and family stories. Analysis of families in fiction and cinema.

SPC 4632 Rhetoric and Social Change (3)
6ACT, 6ACT
This course examines how social change is symbolized and motivated in the rhetorics of institutions, campaigns, social movements and individuals.

SPC 4683 Rhetorical Analysis of Mass Media (3)
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)
SMLE
Explores issues of culture, power, and politics inherent in the ways we practice intercultural communication.

SPC 4714 Communication, Culture and Community (3)
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.
# COURSE DESCRIPTIONS

(AS OF MARCH 1, 2019)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Prerequisite(s)</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPC 4900</td>
<td>Directed Readings (1-3)</td>
<td>PR: COM 2000</td>
<td>Individualized reading with professor to complement undergraduate research projects.</td>
</tr>
<tr>
<td>SPC 4903</td>
<td>Honors Readings (3)</td>
<td>PR: COM 2000 with grade of C or better</td>
<td>Focused readings directed toward preparation of a proposal for an undergraduate honors thesis.</td>
</tr>
<tr>
<td>SPC 4905</td>
<td>Undergraduate Research (1-3)</td>
<td>PR: COM 2000</td>
<td>Individual investigations with faculty supervision.</td>
</tr>
<tr>
<td>SPC 4930</td>
<td>Selected Topics (1-3)</td>
<td>Variable topics</td>
<td></td>
</tr>
<tr>
<td>SPC 4932</td>
<td>Senior Seminar in Communication (3)</td>
<td>PR: COM 2000</td>
<td>Exploration of selected topics of current significance to the several areas of communication through group discussion and research.</td>
</tr>
<tr>
<td>SPC 5930</td>
<td>Topics in Discourse (3)</td>
<td>Variable topics course</td>
<td></td>
</tr>
<tr>
<td>SPM 3012</td>
<td>Issues in Sport (3)</td>
<td></td>
<td>A study of organized sport as a pervasive part of contemporary society. By increasing understanding of some of the issues and controversies based on the structure of sport and society, individuals will be able to understand and improve sport experiences for themselves and others.</td>
</tr>
<tr>
<td>SPM 3256</td>
<td>Sport in Society: Contemporary Issues (3)</td>
<td></td>
<td>A study of organized sport in society. Individuals will be able to understand issues such as race, social class, gender, politics, religion, economics, media, physical disabilities, sexual orientation, and ethics as they relate to sports.</td>
</tr>
<tr>
<td>SPN 1120</td>
<td>Beginning Spanish I (4)</td>
<td></td>
<td>Development of basic skills in listening and reading comprehension, speaking and writing of Spanish.</td>
</tr>
<tr>
<td>SPN 1121</td>
<td>Beginning Spanish II (4)</td>
<td>PR: SPN 1120 or equivalent</td>
<td>Continued development of basic skills in listening and reading comprehension, speaking and writing of Spanish.</td>
</tr>
<tr>
<td>SPN 2200</td>
<td>Spanish III (3)</td>
<td>PR: SPN 1121 or equivalent</td>
<td>Continued development of basic skills in listening and reading comprehension, speaking and writing of Spanish.</td>
</tr>
<tr>
<td>SPN 2201</td>
<td>Spanish IV (3)</td>
<td>PR: SPN 2200 or equivalent.</td>
<td>Continued development of basic skills in listening and reading comprehension, speaking and writing of Spanish.</td>
</tr>
<tr>
<td>SPN 2240</td>
<td>Conversation I (3)</td>
<td>PR: SPN 2201.</td>
<td>For development of basic conversational skills.</td>
</tr>
<tr>
<td>SPN 2241</td>
<td>Conversation II (3)</td>
<td>PR: SPN 2240 or equivalent.</td>
<td>To improve fluency in spoken Spanish.</td>
</tr>
<tr>
<td>SPN 2270</td>
<td>Overseas Study (1-6)</td>
<td>PR: SPN 1121.</td>
<td>An intensive study-travel program in a Spanish-speaking country.</td>
</tr>
<tr>
<td>SPN 2340</td>
<td>Advanced Spanish for Native Speakers I (3)</td>
<td></td>
<td>Course for native and near-native speakers of Spanish due to home environment and/or residence in a Spanish speaking country, but without formal training in the language. Emphasis on cultural exploration and the grammatical problems of such speakers.</td>
</tr>
<tr>
<td>SPN 2341</td>
<td>Advanced Spanish for Native Speakers II (3)</td>
<td>PR: SPN 2340</td>
<td>Continuation of SPN 3340. Course for native and near-native speakers of Spanish due to home environment and/or residence in a Spanish speaking country, but with limited or no training in the language. Emphasis on grammar problems affecting such speakers.</td>
</tr>
<tr>
<td>SPN 3300</td>
<td>Advanced Spanish Grammar and Composition (3)</td>
<td>PR: SPN 2201 or equivalent.</td>
<td>A study of syntax, grammar and writing.</td>
</tr>
<tr>
<td>SPN 3440</td>
<td>Spanish for Business and International Trade I (3)</td>
<td>PR: SPN 2201 or equivalent.</td>
<td>A study of vocabulary and business practices of the Spanish speaking world. Overview of cultural differences within the Spanish speaking world, with emphasis on their impact on business and international trade.</td>
</tr>
<tr>
<td>SPN 3441</td>
<td>Spanish for Business and International Trade II (3)</td>
<td>PR: SPN 3440 or equivalent.</td>
<td>Continuation of SPN 3440. A study of vocabulary and business practices of the Spanish speaking world. Overview of cultural differences within the Spanish speaking world, with emphasis on their impact on business and international trade.</td>
</tr>
</tbody>
</table>
COURSE DESCRIPTIONS
(AS OF MARCH 1, 2019)

UNIVERSITY OF SOUTH FLORIDA 2019-20 UNDERGRADUATE CATALOG

SPN 3500 Spanish Civilization (3)
PR: SPN 2201 or equivalent.
The culture and civilization of Spain. For majors and non-majors.

SPN 3514 The Three Cultures of Medieval Spain (3)
In this course students will have the opportunity to explore the history and traditions of three of the worldâ€™s leading religions in the context of the Iberian Peninsula and its Jewish, Christian, and Arabic past.

SPN 3520 Spanish-American Civilization (3)
PR: SPN 2201 or equivalent.
Readings and discussions on the culture and civilization of Spanish America. For majors and non-majors.

SPN 3564 Spain Today: Culture and Politics in the Media (3)
This course teaches contemporary culture in Spain through a variety of media and cultural authentic materials. Course primarily discussion-based with short introductions of historical and cultural contexts.

SPN 4301 Expository Writing (3)
PR: SPN 3300 or SPN 2340.
Practical training in contemporary Spanish structure, usage and stylistic devices.

SPN 4410 Advanced Conversation (3)
PR: SPN 2241 or equivalent.
Intensive practice in the formulation and expression of ideas in standard Spanish.

SPN 4470 Advanced Overseas Study (1-6)
PR: SPN 2270.
Intensive language study in Spain.

SPN 4700 Spanish Linguistics (3)
PR: LIN 3010 or equivalent and SPN 2201 or equivalent.
An introduction to Hispanic linguistics: Phonology, morphology, syntax, and lexicography.

SPN 5525 Modern Spanish American Civilization (3)
PR: SPN 3520 or equivalent.
Advanced readings and discussions dealing with Spanish American civilization and culture, including a study of social, artistic and political trends. Text and discussion in Spanish.

SPN 5567 Modern Spanish Civilization (3)
PR: SPN 3500 or equivalent.
Advanced readings and discussions dealing with contemporary Spanish civilization and culture, including a study of recent social, artistic and political trends. Texts and discussions in Spanish.

SPT 3100 Masterpieces of Hispanic Literature (3)
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.

SPW 3030 Introduction to Hispanic Literary Studies (3)
PR: SPN 3300 or SPN 2340.
Prose fiction, drama, poetry, and essay; techniques of literary analysis.

SPW 3393 Spanish Culture through Literature and Film (3)
This course teaches modern Spanish culture, history, and thought through a variety of interdisciplinary expressions, such as poetry, narrative, essay, visual arts, and film. The scope of the course spans from the early nineteenth century up to now.

SPW 3512 Religion in Hispanic Literature and Film (3)
GCPC, GCPC
This course studies the diverse representations of religions in the Hispanic world through close reading and close viewing of literary and critical texts and films.

SPW 4100 Survey of Spanish Literature I (3)
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)
PR: SPW 3030 or equivalent.
A study of the later periods of Spanish literature.

SPW 4130 Survey of Spanish-American Literature I (3)
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)
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 4145 Sex and Subversion in Spanish Art, Lit, and Film (3)
This course teaches Spanish culture and thought through a variety of artistic expressions related to the theme of sex and subversion, such as surrealism (art, film, poetry, theatre, essays) and the "new wave" of the 1980s (visual art, film), among others.

For Current Course Inventory, see https://www.systemacademics.usf.edu/course-inventory/
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</tr>
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<tbody>
<tr>
<td>SPW 4311</td>
<td>The Creative Genius of the Golden Age</td>
<td>(3)</td>
<td>In this course we will explore the works of art produced by master painters (Velázquez, etc.), the music of renowned musicians (Encina, etc.), and the literary works of some of the worlds most renowned writers.</td>
</tr>
<tr>
<td>SPW 4900</td>
<td>Directed Study</td>
<td>(1-3)</td>
<td>Study of an author, movement or theme.</td>
</tr>
<tr>
<td>SPW 4930</td>
<td>Selected Topics</td>
<td>(1-3)</td>
<td>Study of an author, movement or theme.</td>
</tr>
<tr>
<td>SPW 5135</td>
<td>Colonial Spanish American Literature</td>
<td>(3)</td>
<td>Introduction to Colonial Spanish American Literature from the discovery through the Romantic Period.</td>
</tr>
<tr>
<td>SPW 5339</td>
<td>Golden Age Drama</td>
<td>(3)</td>
<td>Lope de Vega, Alarcon, Tirso, Calderon, and others.</td>
</tr>
<tr>
<td>SPW 5375</td>
<td>Latin American Short Story</td>
<td>(3)</td>
<td>The course examines the state of the Spanish American short story in the 20th Century through reading, analysis and discussion of primary and secondary texts.</td>
</tr>
<tr>
<td>SPW 5387</td>
<td>Spanish American Prose</td>
<td>(3)</td>
<td>Emphasis on the gaucho theme and contemporary prose fiction.</td>
</tr>
<tr>
<td>SPW 5405</td>
<td>Medieval Literature</td>
<td>(3)</td>
<td>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.</td>
</tr>
<tr>
<td>SPW 5465</td>
<td>19th Century Literature</td>
<td>(3)</td>
<td>An appreciation of the romantic and realist periods in Spanish literature.</td>
</tr>
<tr>
<td>SPW 5597</td>
<td>Latin American Culture in Fantastic Literature and Film</td>
<td>(3)</td>
<td>A panoramic view of Spanish American fantastic and science fiction literature and film in order to analyze their relationship to historical, philosophical and cultural trends from the end of the 19th century to the beginning of the 21st century.</td>
</tr>
<tr>
<td>SPW 5605</td>
<td>Cervantes</td>
<td>(3)</td>
<td>Cervantes’ masterpiece Don Quijote de la Mancha.</td>
</tr>
<tr>
<td>SPW 5725</td>
<td>Generation of 1898</td>
<td>(3)</td>
<td>The major figures of the period and their main followers.</td>
</tr>
<tr>
<td>SSE 4313</td>
<td>Teaching Elementary (K-6) Social Studies</td>
<td>(3)</td>
<td>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.</td>
</tr>
<tr>
<td>SSE 4333</td>
<td>Teaching Middle Grades Social Science</td>
<td>(3)</td>
<td>This course is designed to study techniques and strategies employed by social sciences teachers that are effective in motivating teenage youth to acquire the information, skills, and modes of reasoning unique to the social sciences. Students are expected to plan and present instructional plan(s) demonstrating use of various methods, techniques, and material that achieve concrete outcomes. Theoretical foundations of social studies are also studied. Field work is required.</td>
</tr>
<tr>
<td>SSE 4334</td>
<td>Teaching Secondary Grades Social Science</td>
<td>(3)</td>
<td>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.</td>
</tr>
<tr>
<td>SSE 4335</td>
<td>Teaching Social Science Themes</td>
<td>(3)</td>
<td>PR: SSE 4333. This 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.</td>
</tr>
<tr>
<td>SSE 4380</td>
<td>Global and Multicultural Perspectives in Education</td>
<td>(3)</td>
<td>PR: EDG 3604 and EDG 4620 GCPC, GCPC, SMCD Examination of the major issues surrounding global and multicultural perspectives in education. Available to non-Education majors.</td>
</tr>
</tbody>
</table>
### COURSE DESCRIPTIONS

**UNIVERSITY OF SOUTH FLORIDA 2019-20 UNDERGRADUATE CATALOG**

<table>
<thead>
<tr>
<th>Course Code</th>
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<tbody>
<tr>
<td>SSE 4600</td>
<td>Reading and Basic Skills in the Social Studies Class (3)</td>
<td></td>
<td></td>
<td>Reading skills and other basic skills as applied to the social studies are examined. Students plan and present instruction appropriate to the social studies classroom. Fieldwork in middle or senior high schools is required. Restricted to majors.</td>
</tr>
<tr>
<td>SSE 4936</td>
<td>Senior Seminar in Social Science Education (3)</td>
<td></td>
<td>CR: SSE 4940.</td>
<td>Synthesis of teacher candidate’s courses and preparation for the professional interview and application process.</td>
</tr>
<tr>
<td>SSE 4940</td>
<td>Internship: Social Science Education (1-12)</td>
<td></td>
<td>CR: SSE 4936.</td>
<td>One full semester of internship in a public or private school. In special programs where the internship is distributed over two or more semesters, students will be registered for credit which accumulates from 9 to 12 Semester hours.</td>
</tr>
<tr>
<td>SSE 5331</td>
<td>Foundations, Curriculum &amp; Instruction of Social Science Education (3)</td>
<td></td>
<td></td>
<td>Social studies curriculum, methods of instruction and social, philosophical and psychological foundations are examined. Students are expected to plan and present instructional plan(s) appropriate to middle and secondary school levels demonstrating command of the course content.</td>
</tr>
<tr>
<td>SSE 5332</td>
<td>Methods &amp; Strategies in Social Science Education (3)</td>
<td></td>
<td></td>
<td>Social studies methods and strategies are examined with an emphasis on the secondary school environment. The teaching profession, school settings, and current issues are examined. Students are expected to plan and present instructional plan(s) appropriate to senior high school demonstrating command of the course content.</td>
</tr>
<tr>
<td>SSE 5641</td>
<td>Reading and Basic Skills in the Content Area (3)</td>
<td></td>
<td></td>
<td>Reading skills and the other basic skills as applied to the social studies are examined. Students are expected to plan and present instructional plan(s) appropriate to the social studies classroom demonstrating command of the course content. Fieldwork in a middle school is required.</td>
</tr>
<tr>
<td>SSE 5946</td>
<td>Practicum in Social Science Education (3)</td>
<td></td>
<td>PR: SSE 5331.</td>
<td>The course is a practicum course in which pre-service teachers apply the knowledge, skills, and dispositions learned in prerequisite program courses to teach the social studies themes adopted by the National Council for the Social Studies.</td>
</tr>
<tr>
<td>STA 2023</td>
<td>Introductory Statistics I (3)</td>
<td></td>
<td>PR: C (2.0) or better in High School Algebra or Elementary Algebra CPT score of 72 or better. 6AMM, 6AMP, 6AMT, 6AMT, CAQR, SGEM, SMEL, SMMA, SPMA</td>
<td>Descriptive and Inferential Statistics; Principles of Probability Theory, Discrete and Continuous Probability Distributions: Binomial Probability Distribution, Poisson Probability Distribution, Uniform Probability Distribution, Normal Dist and more.</td>
</tr>
<tr>
<td>STA 2122</td>
<td>Social Science Statistics (3)</td>
<td></td>
<td>6AMP, 6AMT, 6AMT, CAQR</td>
<td>Students are taught the fundamental vocabulary and symbols of statistics as well as commonly used statistical procedures in social sciences. Students conduct analyses, interpret results and make conclusions about research questions.</td>
</tr>
<tr>
<td>STA 3024</td>
<td>Introductory Statistics II (3)</td>
<td></td>
<td>PR: STA 2023</td>
<td>Factorials, ANCOV; multiple curvilinear regression; response surfaces; Latin squares, Split Plots, incomplete designs; distribution free methods.</td>
</tr>
<tr>
<td>STA 3027</td>
<td>Statistics and Probability Connections (3)</td>
<td></td>
<td>PR: MAC 2233 or MAC 2241 or MAC 2281 or MAC 2311</td>
<td>This course will provide prospective teachers with experiences in statistics and probability theory that will help them develop the specialized content knowledge needed to support the teaching of mathematics in middle level education.</td>
</tr>
<tr>
<td>STA 4102</td>
<td>Computational Methods for Applied Statistics (3)</td>
<td></td>
<td>PR: STA 2023 and STA 3024.</td>
<td>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>
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<tr>
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<tr>
<td>STA 4222</td>
<td>Sample Survey Design (3)</td>
<td>STA 2023 and STA 3024.</td>
<td>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>
<td></td>
</tr>
<tr>
<td>STA 4322</td>
<td>Introduction to Mathematical Statistics II (3)</td>
<td>MAC 2311, MAC 2312, and MAC 2313 (or MAC 2281, MAC 2282, and MAC 2283), and STA 4321</td>
<td>This course follows the course STA 4321 &quot;Introduction to Mathematical Statistics I&quot;. STA 4322 is based on the second half of the textbook used in STA 4321. The proposed course is a permanent version of STA 4930 &quot;Advanced Essentials of Statistics&quot;.</td>
<td></td>
</tr>
<tr>
<td>STA 4442</td>
<td>Introduction to Probability (3)</td>
<td>MAC 2313.</td>
<td>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>
<td></td>
</tr>
<tr>
<td>STA 4502</td>
<td>Nonparametric Statistical Methods (3)</td>
<td>STA 4321.</td>
<td>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>
<td></td>
</tr>
<tr>
<td>STA 4504</td>
<td>Categorical Data Analysis (3)</td>
<td>STA 4321.</td>
<td>Fundamental concepts and examples of categorical data analysis. Topics include description and inference using proportions and odd ratios, multi-way contingency tables, logistic regression and other generalized linear models, and log linear models.</td>
<td></td>
</tr>
<tr>
<td>STA 4702</td>
<td>Multivariate Statistical Methods (3)</td>
<td>STA 4321.</td>
<td>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>
<td></td>
</tr>
<tr>
<td>STA 4852</td>
<td>Applied Time Series (3)</td>
<td>STA 4321 and STA 4442.</td>
<td>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>
<td></td>
</tr>
<tr>
<td>STA 4930</td>
<td>Selected Topics (1-3)</td>
<td></td>
<td>Rotating topics designed to meet the need and interests of students.</td>
<td></td>
</tr>
<tr>
<td>STA 5166</td>
<td>Statistical Methods I (3)</td>
<td>STA 4321.</td>
<td>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>
<td></td>
</tr>
<tr>
<td>STA 5326</td>
<td>Mathematical Statistics I (3)</td>
<td>STA 5446.</td>
<td>Sample distribution theory, point &amp; interval estimation, optimality theory, statistical decision theory, and hypothesis testing.</td>
<td></td>
</tr>
<tr>
<td>STA 5446</td>
<td>Probability Theory I (3)</td>
<td>STA 4442 and MAA 4212.</td>
<td>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>
<td></td>
</tr>
<tr>
<td>STA 5526</td>
<td>Non-Parametric Statistics (3)</td>
<td>STA 5326.</td>
<td>Theory and methods of non-parametric statistics, order statistics, tolerance regions, and their applications.</td>
<td></td>
</tr>
<tr>
<td>SUR 2101C</td>
<td>Engineering Land Surveying (3)</td>
<td></td>
<td>Principles of land surveying for engineering practice. Traverses, levels, boundary surveys, route surveys, coordinate geometry, and mapping.</td>
<td></td>
</tr>
<tr>
<td>SYA 3110</td>
<td>Classical Theory (3)</td>
<td>SYG 2000.</td>
<td>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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### COURSE DESCRIPTIONS

**UNIVERSITY OF SOUTH FLORIDA 2019-20 UNDERGRADUATE CATALOG**

**SYA 3120 Contemporary Theory (3)**
- **PR:** SYA 3110 and SYG 2000
- An examination of recent trends in sociological theory. Emphasis is on theories examining symbolic interactions, lived experience, popular culture, and social structures.

**SYA 3300 Research Methods (3)**
- **PR:** STA 2122 or equivalent.
- Introduction to the scientific method and its application to social science research. Research design, sampling techniques, and critical evaluation of social research. Required for Sociology majors.

**SYA 3310 Qualitative Inquiry (3)**
- **PR:** SYG 2000
- Exploration of human relationships and behaviors, organizations, and the larger culture through research techniques such as interviews, participant observation, life histories, and narratives.

**SYA 4121 Queer Theory (3)**
- **PR:** Any one of the following: SYG 2000, SYG 2010; WST 2600; WST 3015, WST 2250; WST 3311.
- Examines queer theory's radical deconstruction of categories for understanding the possibility of theorizing "women's" and "men's" lives. The primary goal of this course is to introduce students to queer theory and feminist theories of sexuality.

**SYA 4304 Sociological Research Experience (1-3)**
- **PR:** SYG 2000
- A flexible-unit course for advanced undergraduate students interested in participating in an ongoing faculty research project. Students will complete selected research tasks (background research, data collection and data analysis) with faculty supervision.

**SYA 4910 Individual Research (1-3)**
- **PR:** Four courses in sociology, including SYA 3300
- Content depends on the interest of the student. A contract between the student and the sponsoring faculty member must be signed before class registration.

**SYA 4930 Topics in Sociology (3)**
- Selected specialized topics in Sociology. Topics such as AIDS in society, drugs in society, problems in education, sociology of childhood, public life, socio-biology. Content will vary by semester and by section. See class schedule for specific contents each semester. This course, in different content areas, may be repeated for credit.

**SYA 4935 Senior Seminar (3)**
- **PR:** SYG 2000, SYA 3110, SYA 3300 plus 6 hours of Sociology electives.
- CPST, GCPC, GCPC
- The opportunity for senior sociology majors to apply sociological theory and methods to topics of relevance in today's society.

**SYA 4949 Sociological Internship (1-6)**
- Supervised placement in community organization or agency for a minimum of 10 hours of volunteer work per week, and a weekly seminar on applying sociological skills and methods in the placement setting.

**SYD 3700 Racial and Ethnic Relations (3)**
- **6ACT, CASB, TGEC**
- This course introduces students to a sociological understanding of race and ethnic relations. Students will analyze sociological theories on race and stratification through readings, lectures, discussion, multimedia, and group research projects.

**SYD 4238 Immigrants to America (3)**
- **PR:** SYG 2000 or SYG 2010.
- Examines major sociological debates in the field of immigration with an emphasis on recent immigrants to the United States.

**SYD 4410 Urban Sociology (3)**
- The social structure of the community in modern industrial societies. Analysis of community change.

**SYD 4411 Urban Life (3)**
- **PR:** SYG 2000.
- CPST
- This exit course introduces students to the theory and practice of urban and community research. Students will conduct supervised individual and group research on a Tampa Bay neighborhood of their choice.

**SYD 4512 Sustainable Consumption (3)**
- **PR:** SYG 2000.
- 1. This course examines the relationship between the current environmental crisis and the consumer lifestyle shared by most Americans that is spreading globally.

**SYD 4800 Gender and Society (3)**
- **PR:** SYG 2000 or SYG 2010
- Historical and current issues surrounding gender in America. Emphasis on exploring the causes, meaning, and consequences of gender differences, interpersonal relationships, and institutional participation.

For Current Course Inventory, see [https://www.systemacademics.usf.edu/course-inventory/](https://www.systemacademics.usf.edu/course-inventory/)
SYG 2000 Introduction to Sociology (3)
CASB, SGES, SMEL, SMSS, SPSS
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.

SYG 2010 Contemporary Social Problems (3)
CASB
This course introduces students to a sociological understanding of contemporary social problems. Drawing on such concepts as culture, deviance and social institutions, we will analyze varying definitions, causes and solutions to these problems.

SYG 3011 Social Problems Through Film (3)
Examines, through films, how sociologists define and study social problems, and investigates the role of the popular media in the construction of social problems. Explores the solutions aimed at social problems in a comparative, international perspective.

SYG 3235 Latina/Latino Lives (3)
6ACT, 6ACT, SMCD, WRIN
An exploration of the experiences of Latinas and Latinos in the United States. Examines such sociological themes as oppression, migration, work, family, activism, spirituality, and sexuality through short stories, poetry, and scholarly research.

SYO 3120 Sociology of Families (3)
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)
PR: SYG 2000
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)
Imparts a familiarity with and working knowledge of the main theories, research, and findings in the sociology of the media. Fosters critical thinking abilities by applying this sociological knowledge to the deconstruction of media images.

SYO 3530 Social Inequalities in a Global Society (3)
Introduction to the major concepts and theories used to explain inequality. The topics of race, gender, and sexual orientation will be treated in relation to class, rather than as a parallel dimension of stratification.

SYO 4204 Religion and Immigration (3)
PR: SYG 2000
This course examines: 1) how immigrant communities have been, and are currently, influenced by religion; and 2) how immigrant communities have transformed, and are currently transforming, the religious landscape of the U.S.

SYO 4250 Sociology of Education (3)
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)
PR: SYG 2000
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)
PR: SYG 2000
6ACT, 6ACT, WRIN
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)
Explores poverty by looking at the United States and selected less developed countries around the world. Utilizing sociological theories of poverty, different aspects of poverty will be explored.

SYO 4536 Inequalities and Social Justice (3)
PR: SYG 2000 or SYG 2010
This course draws on the insights of the social sciences and the humanities to understand social inequalities in our global age and to formulate "socially just" responses to those inequalities.
SYO 4572 Hidden Structures of Social Life (3)
Communication networks and the social structures that emerge in them constitute the subject matter for this course: structures of internation in informal groups and formal organizations, social networks, and class and stratification structures.

SYO 4573 Social Networks (3)
PR: SYG 2000 and STA 2122 or equivalent.
Examines how relationships among individuals organize larger social systems (such as social groups and communities) and how these patterned relationships impact actors within social systems.

SYP 3000 Social Psychology (3)
6ACT, CASB, TGEI
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)
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)
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)
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)
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)
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 (3)
PR: SYG 2000
6ACT, 6ACT, WRIN
The exploration of how Americans' purchasing behavior connects to larger historical shifts in our economy, including disenchancement, alienation, inequality, and the rise of the credit card society.

SYP 4510 Sociological Aspects of Deviance (3)
The examination of the social construction of deviance: how deviance is defined, implications of deviance designations. Applications of theories of deviance to questions such as motivations of deviants and implications of criminal justice processing of deviants.

SYP 4513 Elite Deviance (3)
PR: SYG 2000 or SYG 2010
The course challenges traditional definitions of deviancy by examining social harms caused by the very wealthy, corporations, and large organizations such as the federal government.

SYP 4530 Sociology of Juvenile Delinquency (3)
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)
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)
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)
PR: SYG 2000 or SYG 2010
Explores ways sport in U.S. culture is organized by and used to recreate gender in social interaction. Examines the recent history of women in sport and questions the relationship between masculinity, sport participation and women's and men's embodiment.

SYP 4675 Animals & Society (3)
GCPC, GCPC
Explores the complex role of non-human animals in human society by exploring how we, as humans, socially construct animals.
<table>
<thead>
<tr>
<th>Course Code</th>
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<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>SYP 4763</td>
<td>Sociology of Childhood and Youth (3)</td>
<td>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.</td>
</tr>
<tr>
<td>TAX 4001</td>
<td>Concepts of Federal Income Taxation (3)</td>
<td>PR: ACG 2021 with a minimum grade of C, ACG 2071 with a minimum grade of C CPR: ACG 3103 with a minimum grade of 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</td>
<td>Federal Taxation of Business Entities (3)</td>
<td>PR: TAX 4001 with a minimum grade of 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</td>
<td>Introduction to Theatre (3)</td>
<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 multicultural. Required of all theatre majors.</td>
</tr>
<tr>
<td>THE 2252</td>
<td>Great Performances on Film (3)</td>
<td>CAFA, HHCP 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</td>
<td>Script Analysis (3)</td>
<td>PR: THE 2020. This course teaches theatre students the techniques of close reading of dramatic texts.</td>
</tr>
<tr>
<td>THE 3110</td>
<td>Theatre History I (3)</td>
<td>PR: THE 2020. CPST, HHCP 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</td>
<td>Theatre History II (3)</td>
<td>PR: THE 2020. CPST, HHCP 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</td>
<td>New British Theatre and Drama (3)</td>
<td>PR: THE 2305 6ACP, 6ACT, 6ACT, ELWP, EMWP 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</td>
<td>Theatre Origins (3)</td>
<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. 6ACT, 6ACT 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 4264</td>
<td>History of Costume (3)</td>
<td>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</td>
<td>Architecture And Decoration (3)</td>
<td>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</td>
<td>Shakespeare for the Theatre (3)</td>
<td>6ACT, 6ACT, HHCP, WRIN 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</td>
<td>American Drama (3)</td>
<td>6ACT, 6ACT, HHCP, WRIN 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</td>
<td>Caribbean Theatre (3)</td>
<td>PR: THE 2305 and THE 3110 or THE 3111. 6ACT, 6ACT, CPST 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</td>
<td>Drama-Special Topics (3)</td>
<td>PR: THE 3110 or THE 3111. A study of a significant playwright or grouping of playwrights, e.g. Moliere, Brecht, recent American dramatists.</td>
</tr>
</tbody>
</table>

For Current Course Inventory, see [https://www.systemacademics.usf.edu/course-inventory/](https://www.systemacademics.usf.edu/course-inventory/)
THE 4562 Contemporary Performance Theory (3)  
6ACT, 6ACT, CPST, GCPC, GCPC, HHCP  
A seminar for advanced students focusing on theatrical and dramatic theory in relation to actual stage practice.

THE 4574 Sport as Performance (3)  
6ACT, CPST, GCPC, TGED  
Students will use contemporary theory to critique and analyze the interconnected elements of athletic and stage performance, including the athlete/artist, stadium/stage and audience/spectator. Sparring topics from the body to the arena, team mascots, professional wrestling and social media, the course will inform and expand our knowledge in both disciplines.

THE 4593 Honors Seminar (2)  
Readings in the literature, history and theory of the stage in preparation for Theatre Honors Practicum. Past topics have included New German Theatre, Popular Theatre, New American Theatre, Jacobean Theatre.

THE 4594 Honors Practicum (3)  
PR: THE 4593.  
Honors Practicum grows out of the Honors Seminar and engages students in workshops or production with guest artists. Past artists have included the Free Theatre of Munich, the San Francisco Mime Troupe, playwrights Eric Overmeyer, Jeff Jones and Gary Hill.

THE 4595 Honors Thesis (1-3)  
PR: THE 4594.  
A practical or written thesis related to the seminar and practicum and approved by the departmental honors committee.

THE 4905 Directed Studies (1-4)  
Independent studies in the various areas of Theatre. Course of study and credits must be assigned prior to registration.

THE 4930 Selected Topics In Theatre (1-3)  
The content of the course will be governed by student demand and instructor interest. May be lecture or class discussion or studio format.

THE 5090 Directed Studies (1-6)  
Independent studies in the various areas of Theatre. Course of study and credits must be assigned prior to registration.

THE 5931 Selected Topics In Theatre (1-8)  
The content of the course will be governed by the student demand and instructor interest. May be lecture or class discussion or studio format.

TPA 2200 Introduction to Technical Theatre I (3)  
CR: TPA 2290L  
An introductory course in technical production including coursework in the areas of scenic construction, theatre production/organization, and sound. Required for Theatre majors. Requires sequential semester enrollment with TPA 2211 and TPA 2291L. Open to non-majors.

TPA 2211 Introduction to Technical Theatre II (3)  
CR: TPA 2291L  
An introductory course in technical production including stage lighting, costume construction, and sound. Required for Theatre majors. Requires sequential semester enrollment with TPA 2200 and TPA 2290L. Open to non-majors.

TPA 2220 Introduction to Technical Theatre III (3)  
CR: TPA 2220L.  
An introductory course designed to acquaint students with a working knowledge of the basic skills, equipment and terminology in stage lighting production. Open to non-majors.

TPA 2220L Technical Theatre Lab III (1)  
CR: TPA 2220.  
A practical laboratory providing an understanding of the duties associated with lighting crews through hands on production experiences. Open to non-majors.

TPA 2248 Workshop In Stage Makeup (1)  
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)  
CR: TPA 2200  
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)  
CR: TPA 2211  
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)  
PR: TPA 2200, TPA 2290L, TPA 2211, TPA 2291L  
The rehearsal, construction, and performance of major theatrical works. Assignments are made by a faculty committee following the students completion of a PI request form, available in the Theatre Office, and enrollment in this course.
<table>
<thead>
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<th>Course Code</th>
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<tbody>
<tr>
<td>TPA 3007</td>
<td>Introduction to Design I (3)</td>
<td>PR: TPA 2200, TPA 2211, TPA 2290L, and TPA 2291L.</td>
<td>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.</td>
</tr>
<tr>
<td>TPA 3008</td>
<td>Introduction to Design II (3)</td>
<td>PR: TPA 3007.</td>
<td>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.</td>
</tr>
<tr>
<td>TPA 3208</td>
<td>Drafting and CAD I (3)</td>
<td>PR: TPA 2200, TPA 2211, TPA 2290L and TPA 2291L.</td>
<td>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.</td>
</tr>
<tr>
<td>TPA 3223</td>
<td>Lighting: Theory And Practice (3)</td>
<td></td>
<td>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.</td>
</tr>
<tr>
<td>TPA 3231</td>
<td>Costume Construction (3)</td>
<td>PR: TPA 3208.</td>
<td>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.</td>
</tr>
<tr>
<td>TPA 3251</td>
<td>Drafting and CAD II (3)</td>
<td>PR: TPA 3208.</td>
<td>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.</td>
</tr>
<tr>
<td>TPA 3265</td>
<td>Sound For The Stage (3)</td>
<td>PR: TPA 2200, TPA 2290L, TPA 2211, and TPA 2291L.</td>
<td>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.</td>
</tr>
<tr>
<td>TPA 3296</td>
<td>Design Practicum (2)</td>
<td>PR: TPA 3008.</td>
<td>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.</td>
</tr>
<tr>
<td>TPA 3601</td>
<td>Stage Management (2)</td>
<td>PR: TPA 2200, TPA 2290L, TPA 2211, and TPA 2291L.</td>
<td>A practical course in the working organizational function of the stage manager in theatre, dance, opera, and other live performance situations.</td>
</tr>
<tr>
<td>TPA 4011</td>
<td>Design Studio I (3)</td>
<td>PR: TPA 3008 and TPA 3208 plus two of TPA 3231, TPA 3221, or TPA 3251.</td>
<td>TPA 4011 will include studio design project activities in the areas of costume, lighting, and scenic design. The course work will stress the nature of collaborative work and the various stages and processes involved with the development of a design from the first meeting to the final paper/model design.</td>
</tr>
<tr>
<td>TPA 4013</td>
<td>Lighting Design (3)</td>
<td>PR: TPA 3008 and TPA 3208.</td>
<td>A lighting design course concerned with graphic presentations, color theory, design concepts, and practical experience with computer lighting systems, stressing collaborative work and the various stages and processes in lighting design development.</td>
</tr>
</tbody>
</table>
COURSE DESCRIPTIONS
(AS OF MARCH 1, 2019)

TPA 4045 Costume Design (3)
PR: TPA 3008 and THE 4264
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 4077 Scene Painting (2)
PR: TPA 3007
A practical course in the painting of stage scenery: media and application.

TPA 4273 Stage Properties: Techniques And Materials Studio (2)
PR: TPA 3007
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)
PR: TPA 2292 with a minimum grade of C
The rehearsal, construction, and performance of major theatrical works. Assignments are made by a faculty committee following the student's completion of a PI request form, available in the Theatre Office, and enrollment in this course.

TPA 4298 Advanced Design Practicum (3)
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 2190 Studio Theatre Performance I (1)
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 Movement for Actors (3)
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)
PR: TPP 2110.
An intensive study in improvisation as an enhancement of the actor's skill. Exercises and theatre games as flexible forms which accommodate improvisation and physical invention are examined and used to develop group creativity.

TPP 3155 Acting II (3)
Identify and investigate the fundamental elements of acting as applied to scene exploration, rehearsal, and presentation.

TPP 3230 Laboratory Workshop In Performance (3)
PR: TPP 2110
The content of the course will be governed by student demand and instructor interest.

TPP 3251C Acting the Song (3)
PR: TPP 2110 with a minimum grade of C and Audition
This course will enable the student to approach music and lyrics from the actor's point of view. Lyrics are explored as monologues and music is explored as a way to support the emotional life of the character.

TPP 3252C Musical Theater Scene Study (3)
PR: TPP 3155, TPP 3251C both with a minimum grade of C and audition
This course teaches acting for the musical theatre. It addresses why songs occur, how to transition from dialogue to song, and the use of underscoring. It explores these techniques in distinct genres from the Golden Age of Musical Theater to the present.

TPP 3580 Special Skills In Movement (3)
PR: TPP 2110
Stage combat, circus and acrobatic techniques, and other special techniques of movement.

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<tbody>
<tr>
<td>TPP 3790</td>
<td>Voice for Actors (3)</td>
<td>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.</td>
</tr>
<tr>
<td>TPP 4140</td>
<td>Styles of Acting (3)</td>
<td>PR: TPP 4180 Examination of the actor's craft and skills needed to fulfill the demands of classical theatre forms.</td>
</tr>
<tr>
<td>TPP 4180</td>
<td>Acting III (3)</td>
<td>GCPC, GCPC 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.</td>
</tr>
<tr>
<td>TPP 4193</td>
<td>Studio Theatre Performance II (1)</td>
<td>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.</td>
</tr>
<tr>
<td>TPP 4221</td>
<td>Audition Workshop for Actors (3)</td>
<td>PR: TPP 3155 or TPP 3921 Preparation for professional audition; discussion of professional objectives.</td>
</tr>
<tr>
<td>TPP 4310</td>
<td>Directing I (3)</td>
<td>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.</td>
</tr>
<tr>
<td>TPP 4311</td>
<td>Directing II (3)</td>
<td>PR: TPP 4310 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.</td>
</tr>
<tr>
<td>TPP 4600</td>
<td>Writing For The Theatre (3)</td>
<td>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.</td>
</tr>
<tr>
<td>TPP 4920</td>
<td>Senior Workshop For Actors (3)</td>
<td>PR: TPP 2500, TPP 3790, TPP 3155, or TPP 3921. A workshop in advanced vocal and movement techniques.</td>
</tr>
<tr>
<td>TPP 4923</td>
<td>Music Theatre Workshop (3)</td>
<td>PR: TPP 2110 Exploration of Musical Theatre materials and performance techniques for the performer. Individual and ensemble work.</td>
</tr>
<tr>
<td>TSL 4080</td>
<td>ESOL 1 - Curriculum and Pedagogy of ESOL (3)</td>
<td>GCPC, TGEE 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.</td>
</tr>
<tr>
<td>TSL 4081</td>
<td>ESOL 2 - Literacy Development in English Language Learners (3)</td>
<td>PR: TSL 4080 or FLE 4317. This course is designed to provide students with a critical understanding of instructional delivery which caters to the linguistic and literacy needs of minority/heritage communities. Providing students with a sociocultural-critical theoretical framework.</td>
</tr>
<tr>
<td>TSL 4251</td>
<td>ESOL 3 - Applying Linguistics to ESOL Teaching and Testing (3)</td>
<td>PR: TSL 4080 and TSL 4081. This course provides an overview of the components of language, linking them to methods and techniques of providing comprehensible instruction to English Language Learners (ELLs) and supports the development of professional literacy skills.</td>
</tr>
<tr>
<td>TSL 4324</td>
<td>ESOL Competencies and Strategies (1-3)</td>
<td>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.</td>
</tr>
</tbody>
</table>
TSL 4362 Methodology of Teaching English Overseas (3)
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 5085 ESOL I - Theory and Practice of Teaching English Language Learners (3)
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)
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)
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)
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)
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)
Analysis of the methods of teaching English pronunciation and structure to speakers of other languages.

TSL 5372 ESOL Curriculum and Instruction (3)
Analysis of the methods of teaching English pronunciation and structure to speakers of other languages.

TSL 5440 Language Testing (3)
PR: TSL 5371. Lecture course on testing English as a second/foreign language.

TSL 5525 Cross-Cultural Issues in ESL (3)
PR: LIN 5700. Lecture course on cultural issues in Teaching English as a Second/Foreign language.

TSL 5940 ESOL Practicum (1-3)
PR: FLE 5345 and FLE 5145. 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)
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)
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)
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 Impacts; site layout & design, and operation of alternate models including bus, air, rail, water, and pipeline facilities and terminals.

TTE 5205 Traffic Systems Engineering (3)
PR: TTE 4004 or equivalent. Traffics models, intersection analysis, capacity analysis, data methods collection, parking studies, volume and speed studies, freeway management, and advanced technologies.

TTE 5305 Infrastructure System Management (3)
PR: EGN 3443. This course introduces analytical methods for the management of infrastructure systems over their life, focusing on pavement. Topics covered include data measurement and sampling, performance modeling, and maintenance strategies.
COURSE DESCRIPTIONS
(AS OF MARCH 1, 2019)

UNIVERSITY OF SOUTH FLORIDA 2019-20 UNDERGRADUATE CATALOG

TTE 5501 Transportation Planning and Economics (3)
PR: College Algebra
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)
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)
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 (3)
Examination of current urban planning and policy issues and debates, such as metropolitan organization and governance, economic development and growth management, edge cities, planning for environmental sustainability.

URS 3002 Introduction to Urban Studies (3)
An interdisciplinary introduction to the process of urbanization and the diverse communities it has created. Urban areas in the United States, as well as global cities, will be examined.

URS 3002 Special Topics in Urban Studies (3)
Selected issues and topics in Urban Studies with course content based on student demand and instructor's interest. May be repeated as topics vary.

VIC 3001 Visual Literacy (3)
6ACT, TGEI
In this course, learners will journey from looking to seeing in order to identify, critique and discern meaning in visual communication within a cultural, ethical, aesthetic, intellectual and technological context.

VIC 3943 Visual Communication Internship (1-3)
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 3209 Terrorism in World History (3)
This course examines the history of terrorism from the first century A.D. to the present and explores the historical context and consequences of terrorist movements in their historical milieu.

WOH 3245 History of Sports from National to Global Contexts (3)
GCPC, GCPC
This class will analyze the development of modern sports (soccer, baseball, basketball, netball, tennis) in the Americas. Students will discuss the meaning of sports in modern culture, from the end of the nineteenth century to globalization.

WOH 3293 Islam in World History (3)
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 (3)
CAHU, HHCP
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 (3)
6ACT, CASB, TGEC
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 3006 Careers & Professionalism in WGS (3)
Focus on professional, career, and personal strategies and skills within a feminist and social justice framework, with special attention on balancing ethics/career and on sex, gender, race, and orientation in the contemporary workplace.

WST 3015 Introduction to Women's Studies (3)
6ACT, CASB, TGED
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 (3)
6ACT, 6ACT
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.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Prerequisites/Notes</th>
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<tbody>
<tr>
<td>WST 3220</td>
<td>European Feminist History: Enlightenment to the Present (3)</td>
<td>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.</td>
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<tr>
<td>WST 3311</td>
<td>Issues in Feminism (3)</td>
<td>CASB</td>
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<tr>
<td>WST 3324</td>
<td>Women, Environment and Gender (3)</td>
<td>PR: BSC 1005 or BSC 2010, any introductory science course from biology, chemistry, physics, public health or WST 4320. CANL, EMWP. Investigation of intersection of women’s studies, gender and environment with focus on women’s health. Exploration of hypothesis formulation and testing, current issues.</td>
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<tr>
<td>WST 3334</td>
<td>Queer Film &amp; Television (3)</td>
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<tr>
<td>WST 3370</td>
<td>Women and Social Action (3)</td>
<td>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.</td>
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<tr>
<td>WST 3380</td>
<td>Sexualities Studies (3)</td>
<td>Overview of the interdisciplinary field of sexuality studies, covering theories of sexualities, social control and regulation, and how sexualities intersect with other axes of identities such as race, gender, class, age, and ability.</td>
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<tr>
<td>WST 3412</td>
<td>Women in the Developing World (3)</td>
<td>Survey of status of women in Asia, Africa, Latin and Caribbean America, compared to that in USA, Canada, West Europe, Marxist-Leninist countries. (May also be taken for credit in Government and International Affairs.)</td>
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<tr>
<td>WST 3602</td>
<td>Introduction to LGBTQ Cultures (3)</td>
<td>Explores the experiences of people who identify as lesbian, gay, bisexual, transgender, and/or queer (LGBTQ).</td>
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<tr>
<td>WST 3620</td>
<td>Men and Sexism (3)</td>
<td>Ways in which sex role conditioning affects the lives of men. Factors in this conditioning and alternatives to masculine sex role models.</td>
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<tr>
<td>WST 4002</td>
<td>Feminist Research Methods (3)</td>
<td>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.</td>
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<tr>
<td>WST 4106</td>
<td>Global and Transnational Feminism (3)</td>
<td>GCPC, GCPC Women, gender, and feminism in transnational perspective, focusing on various theories and movements engendered in diverse contemporary geopolitical contexts. Development, globalization, reproductive politics, and women’s health will be examined.</td>
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<tr>
<td>WST 4110</td>
<td>Women and Social Justice (3)</td>
<td>PR: WST 3015 GCPC This course examines the complexities of transnational social justice for women by investigating health, violence, reproduction and work within the context of international human rights law, nationalist policies, and global capitalism.</td>
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<tr>
<td>WST 4262</td>
<td>Literature by Women of Color in the Diaspora (3)</td>
<td>6ACT, 6ACT, WRIN 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.</td>
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<tr>
<td>WST 4310</td>
<td>History of Feminism in the U.S. (3)</td>
<td>6ACT, 6ACT 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.</td>
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<tr>
<td>WST 4320</td>
<td>Politics and Issues in Women’s Health (3)</td>
<td>CASB 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.</td>
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<tr>
<td>WST 4335</td>
<td>Women and Film (3)</td>
<td>A study of representation of women in films and the responses of feminist film theorists and filmmakers.</td>
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<tr>
<td>WST 4336</td>
<td>Feminist Theories of Media &amp; Popular Culture (3)</td>
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<td>WST 4350</td>
<td>Women and Science (3)</td>
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<td>WST 4410</td>
<td>Postcolonial Women Writers (3)</td>
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<td>WST 4522</td>
<td>Classics in Feminist Theory (3)</td>
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<td>WST 4561</td>
<td>Contemporary Feminist Theory (3)</td>
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<tr>
<td>WST 4900</td>
<td>Directed Readings (1-3)</td>
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<tr>
<td>WST 4910</td>
<td>Directed Research (1-3)</td>
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<tr>
<td>WST 4930</td>
<td>Selected Topics (1-3)</td>
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<td>WST 4935</td>
<td>Capstone/Senior Project (3)</td>
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<tr>
<td>WST 4940</td>
<td>Internship in Women's &amp; Gender Studies (1-3)</td>
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<tr>
<td>WST 5308</td>
<td>Feminist Spirituality (3)</td>
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<tr>
<td>WST 5934</td>
<td>Selected Topics (1-4)</td>
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<tr>
<td>WST 5940</td>
<td>Internship in Women's Studies (3-6)</td>
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<tr>
<td>ZOO 2303</td>
<td>Vertebrate Zoology (3)</td>
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<tr>
<td>ZOO 2710C</td>
<td>Anatomy of Chordates (4)</td>
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<tr>
<td>ZOO 3205C</td>
<td>Advanced Invertebrate Zoology (4)</td>
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For Current Course Inventory, see [https://www.systemacademics.usf.edu/course-inventory/](https://www.systemacademics.usf.edu/course-inventory/)
<table>
<thead>
<tr>
<th>COURSE DESCRIPTIONS</th>
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<tr>
<td>UNIVERSITY OF SOUTH FLORIDA 2019-20 UNDERGRADUATE CATALOG</td>
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</tbody>
</table>

**ZOO 3407 Biology of Sharks and Rays (3)**
The course explores the diversity, taxonomy, anatomy, behavior, ecology, physiology, reproductive biology, growth, life history, and habitat use of sharks/rays, providing students with an in-depth view of the biology of sharks and their relatives.

**ZOO 3407L Biology of Sharks and Rays Laboratory (1)**
CPR: ZOO 3407
The laboratory portion of ZOO 3407 Biology of Sharks and Rays.

**ZOO 3713C Comparative Vertebrate Anatomy (5)**
PR: BSC 2010, BSC 2010L, BSC 2011, BSC 2011L & CHM 2045, CHM 2046 & MAC 1105 or higher-level MAC course, or STA 2023
Anatomy of selected vertebrate types emphasizing evolutionary trends. Lecture and Laboratory.

**ZOO 4233 Parasitology (3)**
PR: BSC 2011, BSC 2011L and CHM 2210 and MAC 1105 or higher-level MAC course or STA 2023
CPR: PCB 3023 or PCB 3043 or PCB 3063 or PCB 3712 and CHM 2211.
Fundamentals of animal parasitology and parasitism, the biology of selected animal parasites, including those of major importance to man. Lecture and laboratory.

**ZOO 4377 Functional Morphology (3)**
PR: ZOO 3713C
This course explores the relationship between vertebrate form and function; basic concepts of biomechanics; responses of vertebrate form to ecological and evolutionary constraints.

**ZOO 4454 Fish Biology (3)**
PR: ZOO 3713C or PCB 3712 or BSC 2094C or ZOO 2303.
Covers the systematics, anatomy, physiology, reproductive biology, behavior and ecology of fish.

**ZOO 4454L Fish Biology Lab (1)**
PR: ZOO 4454.
This is a lab course in fish biology designed to familiarize undergraduate students with the anatomy, ecology, behavior, and classification of fishes.

**ZOO 4512 Sociobiology (3)**
EMWP
An analysis of Animal and human behavior such as sex, territoriality, and aggression in the context of evolution.

**ZOO 4513 Animal Behavior (3)**
PR: PCB 3023 or PCB 3043 or PCB 3063 & CHM 2210 & MAC 1105 or higher-level MAC course or STA 2023
CPR: CHM 2211.
An introduction to comparative animal behavior, with analysis of types of animal behavior, their function and evolutionary origin. Lecture only.

**ZOO 4694 Developmental Biology (3)**
PR: PCB 3023 with a minimum grade of C-, PCB 3063 with a minimum grade of C- or Chemistry with a minimum score of 5
This course will use a problem solving approach to provide fundamental knowledge of scientific concepts and principles involved in the mechanisms underlying patterns of embryonic development for majors/nonmajors.

**ZOO 4753 Human Histology & Molecular Pathology of Disease (3)**
PR: PCB 3023, PCB 3063, CHM 2210
The study of cellular and molecular mechanisms underlying various disease states of the human body present in the context of traditional pathology.

**ZOO 4753L Human Histology & Molecular Pathology of Disease Laboratory (1)**
CR: ZOO 4753
Laboratory associated with Human Histology and Molecular Pathology of Disease.

**ZOO 5456L Ichthyology Lab (1)**
CPR: ZOO 4753
Laboratory portion of Ichthyology relating to evolution, systematics, structure, behavior, physiology and ecology of fishes.

**ZOO 5463C Herpetology (4)**
Major aspects of amphibian and reptilian biology emphasizing fossil history, evolutionary morphology, sensory physiology, life history and reproductive behavior. Lec.-lab. Field trip.

**ZOO 5555C Marine Animal Ecology (4)**
PR: PCB 3043
Investigation of energy flow, biogeochemical cycles, and community structure in marine environments. Lec.-lab.